

youVA

COMPUTER
BOOK

Certificate

The experiments
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Master/Miss Aakash kumar

Studying in _____

_____ School/College

Class _____ Div. _____ Roll No. 22-CS-18

During the academic year _____

Examiner's signature

Teacher's signature

Principal's signature

Date _____

School/College stamp

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Write a C Program to Add, subtract, multiply, and divide two numbers, where both variables should be initialized during run time.

```
#include <stdio.h>
int main()
{
    int a, b, c;
    printf("Enter the value of a and b: \n");
    scanf("%d %d", &a, &b);
    printf("Addition of %d and %d = %d \n", a, b, a+b);
    printf("Subtraction of %d and %d = %d \n", b, a, b-a);
    printf("Multiplication of %d and %d = %d \n", a, b, a*b);
    printf("Division of %d and %d = %d \n", a, b, a/b);
    return 0;
}
```

Teacher's Signature: _____

Enter the value of a and b:

10

20

Addition of 10 and 20 = 30

Subtraction of 20 and 10 = 10

multiplication of 10 and 20 = 200

Division of 10 and 20 = 0

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Write a C Program to Find the area and circumference of rectangle.

```
#include <stdio.h>
```

```
int main()
```

```
{
```

```
    int x, y, a, c;
```

```
    printf("Enter length of rectangle: ");
```

```
    scanf("%d", &x);
```

```
    printf("Enter width of rectangle: ");
```

```
    scanf("%d", &y);
```

```
    a = x * y;
```

```
    c = 2 * (x + y);
```

```
    printf("Area of rectangle with length %d and  
           width %d = %d\n", x, y, a);
```

```
    printf("Circumference of rectangle with length %d and  
           width %d = %d\n", x, y, c);
```

```
    return 0;
```

```
}
```

Teacher's Signature: _____

Enter length of rectangle: 5

Enter width of rectangle: 3

Area of rectangle with length 5 and width 3 = 15

Circumference of rectangle with length 5 and width 3 = 16

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Write a C Program to calculate simple interest and all required variable should be initialized during run time.

```
#include <stdio.h>
```

```
int main()
```

```
{
```

```
float p, r, t, s;
```

```
printf("Enter the value of principle, rate and time (years): \n");
```

```
scanf("%d %d %d", &p, &r, &t);
```

```
s = (p * r * t) / 100;
```

```
printf("simple interest = %.2f", s);
```

```
return 0;
```

```
}
```

Teacher's Signature: _____

Enter the value of principle, rate and time (year):

4000.00

5.60

2

Simple interest = 448.00

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Write a C program to Find area and circumference of a circle?

```
#include <stdio.h>
int main()
{
    float r, A, C;
    printf("Enter the radius of circle: ");
    scanf("%f", &r);

    A = 3.14 * r * r;
    C = 2 * 3.14 * r;
    printf("In Area of circle = %f\n", A);
    printf("Circumference of circle = %f\n", C);
    return 0;
}
```

Teacher's Signature: _____

Enter the radius of circle: 5.0

Area of circle = 78.50000

Circumference of circle = 31.40000

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Write a C program to check the given alphabets is vowel or consonant using switch case statement.

```
#include <stdio.h>
```

```
int main()
```

```
{
```

```
    char ch;
```

```
    printf("Enter an alphabet: ");
```

```
    scanf("%c", &ch);
```

```
    switch (ch)
```

```
    {
```

```
        case 'a': printf("It is vowel");
```

```
            break;
```

```
        case 'e': printf("It is vowel");
```

```
            break;
```

```
        case 'i': printf("It is vowel");
```

```
            break;
```

```
        case 'o': printf("It is vowel");
```

```
            break;
```

```
        case 'u': printf("It is vowel");
```

```
            break;
```

```
        default: printf("It is consonant");
```

```
    }
```

```
    return 0;
```

```
}
```

Teacher's Signature: _____

Test case 1

Enter an alphabet: e
It is vowel

Test case 2

Enter an alphabet: g
It is consonant

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Write a C program to Find the square root of a number.

```
#include <stdio.h>
```

```
#include <math.h>
```

```
int main()
```

```
{
```

```
    int n;
```

```
    printf("Enter a number to get square root:");
```

```
    scanf("%d", &n);
```

```
    printf("\n square root of %d is : %.2f", n, (float)sqrt(n));
```

```
    return 0;
```

```
}
```

Teacher's Signature: _____

Enter a number to get square root: 5

Square root of 5: 2.24

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write a C Program to Find the cube root of a number.

```
#include <stdio.h>
#include <math.h>
int main ()
{
    int n;
    printf("Enter a number to get cube root: ");
    scanf("%d", &n);
    printf("Cube root of %d is = %.02f", n, (float)cbst(n));
    return 0;
}
```

Teacher's Signature: _____

Enter a number to get cube root: 64

cube root of 64 is = 4.00

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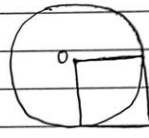
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Write a C Program to Find area of a circle with the help of given figure below, where area of square Oabc is 25.



```
#include <stdio.h>
#include <math.h>
int main ()
{
    int Area = 25;
    int side = sqrt (Area);
    float radius = 3.14 * side * side;
    printf ("radius of circle = %.d", side);
    printf ("\nArea of circle is = %.f", radius);
    return 0;
}
```

Teacher's Signature: _____

radius of circle = 5
Area of circle is = 78.50000

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Write a program to find the factorial of any positive integer, where user will be free to choose the number.

```
#include <stdio.h>
```

```
int main()
```

```
{
```

```
    int n, fact = 1, i;
```

```
    printf("Enter a number: ");
```

```
    scanf("%d", &n);
```

```
    for(i = 0; i <= n; i++)
```

```
    {
```

```
        fact = fact * (n - i);
```

```
    }
```

```
    printf("factorial of %d is = %d", n, fact);
```

```
    return 0;
```

```
}
```

Teacher's Signature: _____

Ex 1. Enter a number: 6
factorial of 6 is = 720

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Write a Program to check whether a given no. is
Prime or not?

```
#include <stdio.h>
```

```
int main()
```

```
{
```

```
int n, i, c = 0;
```

```
printf("Enter a number: ");
```

```
scanf("%d", &n);
```

```
for (i = 2; i <= n; i++)
```

```
{
```

```
if (n % i == 0)
```

```
    c++;
```

```
}
```

```
if (c == 2)
```

```
    printf("It is Prime no.");
```

```
else
```

```
    printf("It is not a Prime no.");
```

```
return 0;
```

```
}
```

Teacher's Signature: _____

Test case 1

Enter a number: 11
It is prime no.

Test case 2

Enter a number: 27
It is not a prime no.

Write a C Program to Print all Prime no. between 1 to 100.

```
#include <stdio.h>
int main()
{
    int i, j, c = 0;
    for (i = 2; i < 100; i++)
    {
        for (j = 2; j < i; j++)
        {
            if (i % j == 0)
            {
                c++;
                break;
            }
        }
        if (c == 0)
        {
            printf("%d\n", i);
        }
        c = 0;
    }
    return 0;
}
```

Teacher's Signature: _____

2
3
5
7
11
13
17
19
23
29
31
37
41
43
47
53
59
61
67
71
73
79
83
89
97

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write a C Program to add First seven terms of
the following series using for loop?

$$\frac{1}{1!} + \frac{2}{2!} + \frac{3}{3!} + \frac{4}{4!} + \dots + \frac{7}{7!} + \dots$$

```
#include <stdio.h>
```

```
int main()
```

```
{
```

```
float sum = 0; fact = 1;
```

```
int i;
```

```
for (i = 1; i < 8; i++)
```

```
{
```

```
fact = fact * i;
```

```
sum += i/fact;
```

```
}
```

```
printf ("Sum of the series first seven terms = %.f", sum);
```

```
return 0;
```

```
}
```

Teacher's Signature: _____

Sum of the series First seven terms = 2.718056

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write a program to print the table of any positive integer.

```
#include <stdio.h>
int main()
{
    int n;
    printf("Enter any positive integer: ");
    scanf("%d", &n);
    int i;
    printf("Table of %d is: \n", n);
    for(i=1; i<=10; i++)
    {
        printf("%d * i = %d", n, n*i);
        printf("\n");
    }
    return 0;
}
```

Teacher's Signature: _____

Enter any Positive Integer: 2

Table of 2 is:

$$2 * 1 = 2$$

$$2 * 2 = 4$$

$$2 * 3 = 6$$

$$2 * 4 = 8$$

$$2 * 5 = 10$$

$$2 * 6 = 12$$

$$2 * 7 = 14$$

$$2 * 8 = 16$$

$$2 * 9 = 18$$

$$2 * 10 = 20$$

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Write a program to print output given below using do while loop.
Enter a number 5
square of 5 is 25
want to enter another number y/n:

```
#include <stdio.h>
#include <math.h>
int main()
{
    int n;
    char ch;
    do
    {
        printf("Enter a number: ");
        scanf("%d", &n);
        printf("\n square of %d is %d\n", n, pow(n,2));
        printf("want to enter another number: y/n?");
        scanf("%c", &ch);
    } while (ch == 'y');
    return 0;
}
```

Teacher's Signature: _____

Enter a number: 5

Square of 5 is 25

Want to enter another number: y/n?

y

Enter a number: 7

Square of 7 is 49

Want to enter another number: y/n?

y

Enter a number: 9

Square of 9 is 81

Want to enter another number: y/n?

n

[Program finished]

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Write a C Program to Print fibonacci series upto given number ?

```
#include <stdio.h>
int main()
{
    int n, i, n1=0, n2=1, n3;
    printf("Enter a number:");
    scanf("%d", &n);
    if (n <= 0)
        printf("Enter positive number");
    else
    {
        printf("0, 1, ");
        for (i=3; n2 < n-n1; i++)
        {
            n3 = n1 + n2;
            n1 = n2;
            n2 = n3;
            printf(".d, ", n3);
        }
    }
    return 0;
}
```

Teacher's Signature: _____

Test case 1

Enter a number : 8

0, 1, 1, 2, 3, 5

Test case 2

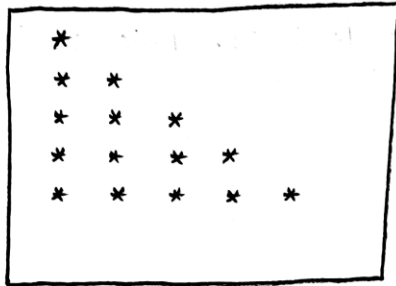
Enter a number : 1000

0, 1, 1, 2, 3, 5, 8, 13, 21, 34, 55, 89, 144, 233, 377, 610, 987

Write a Program to print star patterns given below
Star Pattern 1

```
*  
* *  
* * *  
* * * *  
* * * * *
```

```
#include <stdio.h>  
int main ()  
{  
    int i, j;  
    for (i=0; i<5; i++)  
    {  
        for (j=0; j<=i; j++)  
        {  
            printf(" *");  
        }  
        printf("\n");  
    }  
    return 0;  
}
```



Handwritten notes, possibly describing the grid or the pattern of asterisks.

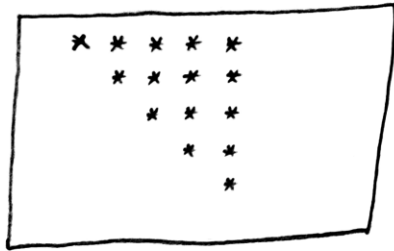
Handwritten notes, possibly describing the grid or the pattern of asterisks.

Star Pattern 2

* * * * *
* * * *
* * *
* *
*

```
#include <stdio.h>
int main()
```

```
{
int i, j, k;
for(i=0; i<5; i++)
{
for(j=5; j>=i; j--)
{
printf(" * ");
}
printf("\n");
for(k=0; k<=i; k++)
{
printf(" ");
}
}
return 0;
}
```



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Pattern 3

1

1 2

1 2 3

1 2 3 4

1 2 3 4 5

```
#include <stdio.h>
```

```
int main()
```

```
{
```

```
    int i, j, k;
```

```
    for (i = 1; i <= 5; i++)
```

```
    {
```

```
        for (j = 1; j <= i; j++)
```

```
        {
```

```
            printf("%d", i);
```

```
        }
```

```
        printf("\n");
```

```
    }
```

```
    return 0;
```

```
}
```

Teacher's Signature: _____

1				
1	2			
1	2	3		
1	2	3	4	
1	2	3	4	5

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Pattern 4

A B C D E
A B C D
A B C
A B
A

```
#include <stdio.h>
int main()
{
    int i, j;
    char ch = 'A';
    for (i = 1; i <= 5; i++)
    {
        for (j = 5; j >= i; j--)
        {
            printf("%c", ch);
            ch++;
        }
        ch = 'A';
        printf("\n");
    }
    return 0;
}
```

Teacher's Signature: _____

A	B	C	D	E
A	B	C	D	
A	B	C		
A	B			
A				

1. 100% of A
 2. 100% of B
 3. 100% of C
 4. 100% of D
 5. 100% of E

6. 100% of A
 7. 100% of B
 8. 100% of C

9. 100% of A
 10. 100% of B

11. 100% of A

12. 100% of A
 13. 100% of B

14. 100% of A
 15. 100% of B

16. 100% of A

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Write a C Program to Perform below operations on given array?

	[0]	[1]	[2]	[3]	[4]	[5]	[6]	
A[7] =	10	20	15	11	25	13	51	

a) Insert element at position given by user.

```

#include <stdio.h>
int main()
{
    int i, n, m;
    int arr[7] = {10, 20, 15, 11, 25, 13, 51};
    printf("Given array elements: \n");
    for(i=0; i<7; i++)
    {
        printf("%d, ", arr[i]);
    }
    printf("which position you want to insert element: ");
    scanf("%d", &n);
    printf("\n Enter your element: \n");
    scanf("%d", &m);
    for(i=7; i>=n; i--)
    {
        arr[i] = arr[i-1];
    }
    arr[n-1] = m;
    for(i=0; i<7; i++)
    {
        printf("%d, ", arr[i]);
    }
    return 0;
}

```

Teacher's Signature: _____

Given array elements:

10, 20, 15, 11, 25, 13, 51

Which position you want to insert element: 3

Enter your element: 7

10, 20, 7, 15, 11, 25, 13, 51

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⑥ Delete elements in given array at position given by user.

```
#include <stdio.h>
```

```
int main()
```

```
{
```

```
    int i, num;
```

```
    int arr[7] = {10, 20, 15, 11, 25, 13, 51};
```

```
    printf("Given array: \n");
```

```
    for(i=0; i<7; i++)
```

```
    {
```

```
        printf("%d, ", arr[i]);
```

```
    }
```

```
    printf("\n In which position of element you want to delete: ");
```

```
    scanf("%d", &num);
```

```
printf printf("\n Now array after deleting element: \n");
```

```
    for(i=num-1; i<n; i++)
```

```
    {
```

```
        arr[i] = arr[i+1];
```

```
    }
```

```
    for(i=0; i<6; i++)
```

```
    {
```

```
        printf("%d, ", arr[i]);
```

```
    }
```

```
    return 0;
```

```
}
```

Teacher's Signature:

Given array:

10, 20, 15, 11, 25, 13, 51

which position of element you want to delete: 5

Now, array after deleting element

10, 20, 15, 11, 13, 51

Write a C Program to Print transpose of a matrix given below:

1	2	3	→	1	4
4	5	6		2	5
				3	6

```
#include <stdio.h>
```

```
int main()
```

```
{
```

```
int i, j;
```

```
int arr[2][3] = { {1, 2, 3}, {4, 5, 6} };
```

```
printf("Given matrix: \n");
```

```
for(i=0; i<2; i++)
```

```
{
```

```
for(j=0; j<3; j++)
```

```
{
```

```
printf("%.d", arr[i][j]);
```

```
}
```

```
printf("\n");
```

```
}
```

```
printf("transpose of the matrix is: \n");
```

```
for(j=0; j<3; j++)
```

```
{
```

```
for(i=0; i<2; i++)
```

```
{
```

```
printf("%.d", arr[i][j]);
```

```
}
```

```
printf("\n");
```

```
}
```

```
return 0;
```

```
}
```

Given matrix:

1 2 3

4 5 6

transpose of the matrix is:

1 4

2 5

3 6

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Write a Program to Find the average of area of circle, circumference of a circle and area of square using function?

Note:- r must be equal to a ($r=a$), where r = radius of circle, a = side of square.

```
#include <stdio.h>
```

```
int average (float, float, float);
```

```
int main()
```

```
{
```

```
float a;
```

```
printf("Enter side of square: ");
```

```
scanf("%f", &a);
```

```
float AreaC = 3.14 * a * a;
```

```
float circum = 2 * 3.14 * a;
```

```
float Areas = a * a;
```

```
printf("Area of circle = .f", AreaC);
```

```
printf("Area of square = .f", Areas);
```

```
printf("Circumference of circle = .f", circum);
```

```
average (AreaC, Areas, circum);
```

```
return 0;
```

```
}
```

```
int average (float a, float b, float c)
```

```
{
```

```
float avg = (a+b+c)/3;
```

```
printf("Average of area of circle, circumference of a circle and area of square = .f", avg);
```

```
return 0;
```

```
}
```

Teacher's Signature: _____

Enter side of square: 5

Area of circle = 78.500000

Area of square = 25.000000

circumference of circle = 31.400000

average of area of circle, circumference of a circle
and area of square = 44.966667

Write a C Program to check whether a given number is perfect number or not, using function.

```
#include <stdio.h>
int perfect(int);
int main()
{
    int n;
    printf("Enter a number:");
    scanf("%d", &n);
    perfect(n);
    return 0;
}

int perfect(int x)
{
    int i, sum=0;
    for(i=1; i<x; i++)
    {
        if(x%i==0)
        {
            sum+=i;
        }
    }

    if(sum==x)
        printf("It is perfect number");
    else
        printf("\n It is not a perfect number");
    return 0;
}
```

Test case 1

Enter a number: 6

It is perfect number

Test case 2

Enter a number: 8

It is not a perfect number

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Write a Program in C to Find the factorial of any number using function.

```
#include <stdio.h>
int factorial(int);
int main()
{
    int x;
    printf("Enter a number:");
    scanf("%d", &x);
    printf
    factorial(x);
    printf("\n factorial = %d", factorial(x));
    return 0;
}

int factorial(int n)
{
    int i, fact=1;
    for(i=1; i<=n; i++)
    {
        fact = fact * i;
    }
    return fact;
}
```

Teacher's Signature:

Enter a number: 4

factorial = 24

Write a C Program to check whether a given number is prime or not using function?

```
#include <stdio.h>
int prime(int);
int main()
{
    int n;
    printf("Enter a number:");
    scanf("%d", &n);
    prime(n);
}
```

```
int prime(int x)
{
    int i, c=0;
    for(i=2; i<x; i++)
    {
        if(x%i==0)
        {
            c++;
        }
    }
    if(c==0)
        printf("Prime");
    else
        printf("Not Prime");
    return 0;
}
```

Test case 1

Enter a number: 29

Prime

Test case 2

Enter a number: 33

Not Prime

write a program in c to check weather a given number is Armstrong or not using the function.

```
#include <stdio.h>
#include <math.h>
int armstrong(int);
int main()
{
    int n;
    printf("Enter a number:");
    scanf("%d", &n);
    armstrong(n);
}
```

```
int armstrong(int n)
{
    int d=0, i, sum=0, A, B, X;
    for(i=1; i*=10)
    {
        if(n/i != 0)
        {
            d++;
        }
        else
            break;
    }
    for(i=1; i<=d; i++)
    {
        X = pow(10, i);
    }
}
```

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$A = n \cdot x;$

$B = A / \text{pow}(10, i-1);$

$\text{sum} + = \text{pow}(B, d);$

}

if (sum == n)

printf("It is an armstrong number");

else

printf("It is not an armstrong number");

return 0;

}

Teacher's Signature: _____

Test case 1

Enter a number: 9474

It is an armstrong number

Test case 2

Enter a number: 1675

It is not an armstrong number

Test case 3

Enter a number: 153

It is an armstrong number

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write a C Program to input string and print it?

```
#include <stdio.h>
```

```
int main()
```

```
{
```

```
    char str[100];
```

```
    printf("Input string:- ");
```

```
    fgets(str, 100, stdin);
```

```
    printf("Output string:- %s", str);
```

```
    return 0;
```

```
}
```

Input string: - hello world, welcome!

Output string: - hello world, welcome!

[Program finished]

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Write a program in C to find the length of a string
without using library function and with library function?

```
#include <stdio.h>
// without using library function
int main()
{
    int i, c = 0;
    char str[100];
    printf("Input string :- ");
    fgets(str, 100, stdin);
    for(i = 0; str[i] != '\0'; i++)
    {
        c++;
    }
    printf("length of string = %d", c-1);
    return 0;
}
```

```
#include <stdio.h>
#include <string.h>
// with using library function
int main()
{
    char str[100];
    printf("Input string :- ");
    fgets(str, 100, stdin);
    printf("length of string = %d", strlen(str));
    return 0;
}
```

Teacher's Signature:

without using library function

Input string:- Hello world
length of string = 11

with using library function

Input string:- Hello world
length of string = 11

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Write a C Program to total number of words in a string.

```
#include <stdio.h>
```

```
#include <string.h>
```

```
void main()
```

```
{
```

```
    char s[20];
```

```
    int count = 0, i;
```

```
    printf("Enter the string: \n");
```

```
    fgets(s, 20, stdin);
```

```
    for(i=0; s[i] != '\0'; i++)
```

```
    {
```

```
        if (s[i] == ' ' && s[i+1] != ' ' && s[i+2] != '\0')
```

```
        {
```

```
            count ++;
```

```
        }
```

```
    }  
    printf("Number of words in given string: %.d", count+1);
```

```
}
```

Teacher's Signature

Enter the string:

Hello world, welcome to puzhara

Number of words in given string:

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Write a C Program to count total number of alphabets, digits and other (like-special character, space, other symbols including null value) of a string.

```
#include <stdio.h>
#include <string.h>
void main ()
{
    char str[50];
    int a, d, s, i;
    a = d = s = 0;
    printf("Input the string: ");
    fgets(str, 50, stdin);
    for (i = 0; str[i] != '\0'; i++)
    {
        if ((str[i] >= 'a' && str[i] <= 'z') || (str[i] >= 'A' && str[i] <= 'Z'))
            a++;
        else if (str[i] >= '0' && str[i] <= '9')
            d++;
        else
            s++;
    }
    printf("Number of alphabets: %.d\n", a);
    printf("Number of digits: %.d\n", d);
    printf("Number of special characters: %.d\n", s);
}
```

Teacher's Signature:

Input the string: hello I'm Aik@sh

Number of Alphabets: 11

Number of digits: 1

Number of special character: 5

[Program Finished]

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Write a C Program to count total number of vowel and consonant in a string?

```
#include <stdio.h>
#include <string.h>
int main ()
{
    int i, v=0, c=0;
    char str[200];
    printf ("Enter your content: \n");
    fgets (str, 200, stdin);
    for (i=0; str[i] != '\0'; i++)
    {
        if (str[i] == 'a' || str[i] == 'e' || str[i] == 'i' || str[i] == 'o' ||
            str[i] == 'u' || str[i] == 'A' || str[i] == 'E' || str[i] == 'I' ||
            str[i] == 'O' || str[i] == 'U')
        {
            v++;
        }
        else if (str[i] == ' ')
            continue;
        else
            c++;
    }
    printf ("vowel = %d \n", v);
    printf ("consonant = %d \n", c-1);
    return 0;
}
```

Teacher's Signature

Enter your content:
hello world
vowel = 3
consonant = 7

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Write a c program to implement linear search on unsorted array using function?

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