

**(1)(3)Write a program to print your name and address on your screen.
Write a program to get values from user using scanf () function.**

```
#include<stdio.h>
#include<conio.h>
void main()
{
    clrscr();
    char name[30],surname[30],city[30];
    int age,x,y,z;

    printf("Enter your Name:-");
    scanf("%s",name);
    printf("Enter your Surname:-");
    scanf("%s",surname);
    printf("Enter Your age:-");
    scanf("%d" ,&age);
    printf("Enter Your city name:-");
    scanf("%s",city);
    printf("Enter num one");
    scanf("%d",&x);
    printf("Enter num two");
    scanf("%d",&y);

    z=x+y;
    printf("Your name is %s \n",name);
    printf("Your Surname is %s \n",surname);
    printf("Your age is %d \n",age);
    printf("Your city name is %s \n",city);
    printf("Your Addition is %d \n",z);
    getch();
}
```

(2)Write a program to initialize value in integer, float and character and print on screen.

```
#include<stdio.h>
#include<conio.h>
void main()
{
    int i=5;
    float f=3.25;
    char ch='a';
    clrscr();
    printf("%d\n",i);
    printf("%f\n",f);
}
```

```

        printf("%c\n",ch);

        getch();
}

```

(4)Write a program to use arithmetic operator. (+, -, *, /, %)

```

#include<stdio.h>
#include<conio.h>
void main()
{

    int a=4,b=2;

    float f=4.56;
    char num[]="5.81";
    char name[]="Devin";
    char ch='D';
    clrscr();
    printf("\n %d",a);
    printf("\n %d",b);
    printf("\n %d",a+b);
    printf("\n %d",a*b);
    printf("\n %d",a/b);
    printf("\n %d",a-b);
    printf("\n %f",f);
    printf("\n %s",num);
    printf("\n %s",name);
    printf("\n %c",ch);
    getch();
}

```

(5)Write a program to use relational operator. (<, >, <=, >=, ==, !=)

```

#include<stdio.h>
#include<conio.h>
void main()
{

    int a,b;
    clrscr();
    printf("Enter num A");
    scanf("%d",&a);
    printf("Enter num B");
    scanf("%d",&b);
}

```

```

        printf("\n %d",a==b);
        printf("\n %d",a<b);
        printf("\n %d",a<=b);
        printf("\n %d",a>b);
        printf("\n %d",a>=b);
        printf("\n %d",a!=b);
        getch();
    }

```

(6)Write a program to use Increment/Decrement operator. (Prefix: ++a, --a Postfix : a++, a--)

```

#include<conio.h>
#include<stdio.h>
void main()
{
    int i=5;
    clrscr();
    printf("%d",++i);
    getch();
}

```

(8)Write a program to input two numbers and print its square and cube.

```

#include<stdio.h>
#include<conio.h>
void main()
{
    int a,b,c,d;
    clrscr();
    printf("Enter Your A num:-");
    scanf("%d",&a);
    printf("Enter Your B num:-");
    scanf("%d",&b);

    c=a*a;
    printf("Your num square is %d",c);
    d=b*b*b;
    printf("\n Your num cube is %d",d);

    getch();
}

```

(9) Write a program to find simple interest. $((P \times R \times N) / 100)$

```
#include<stdio.h>
#include<conio.h>
void main()
{
    clrscr();
    float a,b,c,d;

    printf("Enter principle value:-");
    scanf("%f",&a);
    printf("Enter rate value:-");
    scanf("%f",&b);
    printf("Enter time duration:-");
    scanf("%f",&c);

    d=a*b*c/100;
    printf("Your simple interest is %f",d);

    getch();
}
```

(10) Write a program to calculate the area of circle. $(3.14 \times r \times r)$

```
#include<stdio.h>
#include<conio.h>
void main()
{
    clrscr();
    float a=3.14;
    float b,c;

    printf("Enter radius of circle:-");
    scanf("%f",&b);

    c=a*b*b;
    printf("Your circle area is %f",c);

    getch();
}
```

(11) Write a program to calculate the area of triangle. $((b \times h) / 2)$

```
#include<stdio.h>
#include<conio.h>
void main()
```

```

{

    int a,b,c;
    clrscr();

    printf("Enter base value:-");
    scanf("%d",&a);
    printf("Enter height value:-");
    scanf("%d",&b);

    c=a*b/2;
    printf("Area of triangle is %d",c);
    getch();
}

```

(12) Write a program to calculate the formula. $(c+d)*(g+h)$.

```

#include<stdio.h>
#include<conio.h>
void main()
{
    int a,b,c,d,e,f,g;
    clrscr();

    printf("Enter num A");
    scanf("%d",&a);
    printf("Enter num B");
    scanf("%d",&b);
    printf("Enter num C");
    scanf("%d",&d);
    printf("Enter num D");
    scanf("%d",&e);

    c=a+b;
    f=d+e;
    g=c*f;
    printf("Your ans is %d",g);
    getch();
}

```

(14) Write a program to swap 2 numbers using 3rd variable.

```

#include<stdio.h>
#include<conio.h>
void main()
{
    int a,b,c;
    clrscr();
    printf("Enter num 1:");

```

```

scanf("%d",&a);
printf("Enter num 2:");
scanf("%d",&b);
c=a;
a=b;
b=c;
printf("After swap first to seconf :%d \n",a);
printf("After swap second to first :%d \n",b);
getch();
}

```

(16) Write a program to input age and check age is greater than
(Using only if) (17 same as 16)

```

#include<stdio.h>
#include<conio.h>
void main()
{
    int age;
    clrscr();
    printf("Enter your age");
    scanf("%d",&age);
    if(age>=18)
    {
        printf("You are adult");
    }
    else
    {
        printf("Your are Minor");
    }
    getch();
}

```

(18)Write a program to input 2 numbers and print the maximum among them. (Using if else).

(19)Write a program to input 2 numbers and print the minimum among them. (Using if else).

(25) (26)Same as (18&19)

```

#include<stdio.h>
#include<conio.h>
void main()
{

```

```

    int a,b;
    clrscr();
    printf("Enter num A");
    scanf("%d",&a);
    printf("Enter num B");
    scanf("%d",&b);
    if(a>=b)
    {
        printf("Here is maximum num %d",a);
    }
    else(b>=a)
    {
        printf("Here is maximum num %d",b);
    }
    getch();
}

```

(20) Write a program to input number from user and print it is odd or even. (Using if else).

```

#include<stdio.h>
#include<conio.h>
void main()
{
    int a;
    clrscr();
    printf("Enter num A");
    scanf("%d",&a);

    if(a%2==0)
    {
        printf("Here is a even num");
    }
    else
    {
        printf("Here is a odd num");
    }

    getch();
}

```

(21) Write a program which takes full year and prints whether it is leap year or not. (Using if else)

```
#include<stdio.h>
#include<conio.h>
void main()
{
    int a;
    clrscr();
    printf("Enter year A");
    scanf("%d",&a);

    if(a%4==0)
    {
        printf("Here is a leap year");
    }
    else
    {
        printf("Here is a normal year");
    }

    getch();
}
```

(22) Write a program to input a character and print that is vowel or consonant. (Using if else)

```
#include<stdio.h>
#include<conio.h>
void main()
{
    char i;
    clrscr();
    printf("Enter a char:");
    scanf("%c",&i);
    if(i=='a')
    {
        printf("Here is a vowel");
    }
    else if(i=='e')
    {
        printf("Here is a vowel");
    }
    else if(i=='i')
    {
        printf("Here is a vowel");
    }
    else if(i=='o')
```



```

    {
        printf("Here is a vowel");
    }
    else if(i=='u')
    {
        printf("Here is a vowel");
    }
    else
    {
        printf("Here is a consonant");
    }
    getch();
}

```

(23)Write a program to get a character in lower case and print in upper case or get character in upper case and print in lower case.

```

#include<stdio.h>
#include<conio.h>
void main()
{
    char i,a;
    clrscr();
    printf("Enter alphabate:",i);
    scanf("%c",&i);

    a=i+32;
    printf("Your lower case alphabate:%c",a);

    getch();
}

```

(24)Write a program to enter number and check it is positive, negative or zero. (Using else if)

```

#include<stdio.h>
#include<conio.h>
void main()
{

    int x;
    clrscr();

```

```

printf("Enter num A:-");
scanf("%d",&x);
if(x==0)
{
    printf("Here is a zero");
}
else if(x>=0)
{
    printf("Here is a positive num");
}
else
{
    printf("Here is a negative num");
}
getch();
}

```

(27) Write a program to make mark sheet of student.

Get roll_no, name, sub1_mark, sub2_mark, sub3_mark from user.

Print all detail with total of subject marks, percentage and result.

```

#include<stdio.h>
#include<conio.h>
void main()
{
    char name[30];
    int a,b,c,d,e;
    float f;
    clrscr();

    printf("\n Enter Your Name:-");
    scanf("%s",name);
    printf("\n Enter Your Maths mark:-");
    scanf("%d",&a);
    printf("\n Enter your Physics Marks:-");
    scanf("%d",&b);
    printf("\n Enter your Chemistry Marks:-");
    scanf("%d",&c);
    printf("\n Enter your Computer Marks:-");
    scanf("%d",&d);

    printf("\n Your Maths marks is %d",a);
    printf("\n Your Physics marks is %d",b);
    printf("\n Your Chemistry marks is %d",c);
}

```

```

printf("\n Your Computer marks is %d",d);

e=a+b+c+d;
printf("\n Your marks total is %d",e);

f=e/4;
printf("\n Your percentage is %f",f);

if(f>=90)
{
    printf("Grade-A");
}
else if(f>=80)
{
    printf("Grade-B");
}
else if(f>=70)
{
    printf("Grade-C");
}
else if(f>=60)
{
    printf("Grade-D");
}
else
{
    printf("Fail");
}

getch();
}

```

(28) Write a program to make a G.K. test using switch case.

Who developed 'C' ?

- | | |
|--------------------|-------------------|
| A. Ken Thompson | B. Dennis Ritchie |
| C. Martin Ritchard | D. Peter Norton |

```

#include<stdio.h>
#include<conio.h>
void main()
{

    int option;
    clrscr();

    printf("\n Who developed C?");
    printf("\n (a)Ken Thompson \t (b)Dennis Ritchie");
}

```

```

printf("\n (c)Martin Ritchard \t (d)Peter Norton");
printf("\n Enter option:-");
scanf("%d",&option);
switch(option)
{
    case 1:
        printf("Ken Thompson",option);
        break;
    case 2:
        printf("Dennis Ritchie",option);
        break;
    case 3:
        printf("Martin Ritchard",option);
        break;
    case 4:
        printf("Peter Norton",option);
        break;
    default:
        printf("No Result Found");
}
getch();
}

```

(29)Write a program to print month in word using switch case.

1. January
2. February
-
12. December

```

#include<stdio.h>
#include<conio.h>
void main()
{
    int month;
    clrscr();

    printf("Enter a month:-");
    scanf("%d",&month);
    switch(month)
    {
        case 1:
            printf("January",month);
            break;
        case 2:
            printf("February",month);
            break;

```

```

        case 3:
        printf("March",month);
        break;
        case 4:
        printf("April",month);
        break;
        case 5:
        printf("May",month);
        break;
        case 6:
        printf("June",month);
        break;
        case 7:
        printf("July",month);
        break;
        case 8:
        printf("August",month);
        break;
        case 9:
        printf("September",month);
        break;
        case 10:
        printf("October",month);
        break;
        case 11:
        printf("November",month);
        break;
        case 12:
        printf("December",month);
        break;
        default:
        printf("Result not found",month);
    }

    getch();
}

```

(30)Write a program to get 2 numbers and print its addition, subtraction, multiplication and division using switch case.

3. addition
4. subtraction
5. multiplication
6. division

```

#include<stdio.h>
#include<conio.h>
void main()
{

```

```

int a,b,c,d,e,f;
clrscr();

printf("Enter your num A:-");
scanf("%d",&a);
printf("Enter your num B:-");
scanf("%d",&b);
printf("Enter your operator");
scanf("%d",&c||&d||&e||&f);

c=a+b;
d=a-b;
e=a*b;
f=a/b;
switch(c,d,e,f)
{
    case 1:
        printf("a+b %d",c);
        break;
    case 2:
        printf("a-b %d",d);
        break;
    case 3:
        printf("a*b %d",e);
        break;
    case 4:
        printf("a/b %d",f);
        break;
    default:
        printf("Result not found");
}

getch();
}

```

(31) Write a program to make a program of Banking using switch case.

7. balance check

8. withdraw

9. deposit

10. exit

```

#include<stdio.h>
#include<conio.h>
void main()
{
    int select;
    clrscr();
    printf("Enter your Transection");
    scanf("%d",&select);
}

```

```

switch(select)
{
    case 1:
        printf("balance check",select);
        break;
    case 2:
        printf("withdraw",select);
        break;
    case 3:
        printf("deposit",select);
        break;
    case 4:
        printf("exit",select);
        break;
    default:
        printf("Result not found");
}

getch();
}

```

(32) Write a program to get a character and print it is vowel or consonant. (Using switch case)

```

#include<stdio.h>
#include<conio.h>
void main()
{
    char i;
    clrscr();
    printf("Enter alphabate:",i);
    scanf("%c",&i);
    switch(i)
    {
        case 'a':
            printf("Here is a vowel %c",i);
            break;
        case 'e':
            printf("Here is a vowel %c",i);
            break;
        case 'o':
            printf("Here is a vowel %c",i);
            break;
        case 'i':
            printf("Here is a vowel %c",i);
            break;
        case 'u':
            printf("Here is a vowel %c",i);
            break;
        default:

```

```

        printf("Here is a consonant %c",i);

    }
    getch();
}

```

(34) Write a program to print 1 to 10. (using for, while and do while)

```

#include<stdio.h>
#include<conio.h>
void main()
{

    int i;
    clrscr();

    for(i=1; i<=10;i++)
    {
        printf("\n %d",i);
    }
    getch();
}

```

(35) Write a program to print 10 to 1. (using for, while and do while)

```

#include<stdio.h>
#include<conio.h>
void main()
{

    int i;
    clrscr();

    for(i=10; i>=0;i--)
    {
        printf("\n %d",i);
    }
    getch();
}

```

(36) Write a program to print 2, 4, 6, 8, __n.

```

#include<stdio.h>
#include<conio.h>

```



```

void main()
{
    int i,n;
    clrscr();
    printf("Enter your num N:");
    scanf("%d",&n);

    for(i=2;i<=n;i++)
    {
        printf("\n %d",i++);
    }

    getch();
}

```

(37)Write a program to print 3,5,7,9,___n.

```

#include<stdio.h>
#include<conio.h>
void main()
{
    int i,n;
    clrscr();
    printf("Enter your num N:");
    scanf("%d",&n);

    for(i=1;i<=n;i++)
    {
        printf("\n %d",i++);
    }

    getch();
}

```

(38)Write a program to print 1,2,4,8,16,32,64.

```

#include<stdio.h>
#include<conio.h>
void main()
{
    clrscr();
    int i;
    for(i=1;i<=8;i++)
    {
        printf("%d \n",i*i);
    }
    getch();
}

```

```
}
```

(39) Write a program to print 1, 10, 2, 9, 3, 8, 4, 7, 5, 6.

```
#include<stdio.h>
#include<conio.h>
void main()
{
    int i;
    clrscr();
    for (i=0; i<=4; i++)
    {
        printf("%3d", i+1);
        printf("%3d", 10-i);
    }
    getch();
}
```

(40) Write a program to print 1, 11, 20, 28, 35, 41, 46, 50, 53, 55.

```
#include<stdio.h>
#include<conio.h>
void main()
{
    int a,b;
    clrscr();
    a=1;
    b=10;
    do
    {
        printf("\n %d", a);
        a=a+b;
        b--;
    }
    while(b>0);
    getch();
}
```

(41) Write a program to print the total of 1 to 10.

```
#include<stdio.h>
#include<conio.h>
void main()
{
    int a;
    clrscr();
```

```

    a=1+2+3+4+5+6+7+8+9+10;
    printf("%d",a);
    getch();

}

```

(42) Write a program to print the total of first 100 even numbers.

```

#include<stdio.h>
#include<conio.h>
void main()
{
    int i,n,sum=0;
    clrscr();
    printf("Even number btw 1-100 \n");
    for(i=1;i<=100;i++)
    {
        if(i%2==0)
        {
            sum=sum+i;
        }
    }
    printf("Sum of all even numbers btw 1-100 is %d",sum);
    getch();
}

```

(43) Write a program to print the total of first 100 odd numbers.

```

#include<stdio.h>
#include<conio.h>
void main()
{
    int i,n,sum=0;
    clrscr();
    printf("Even number btw 1-100 \n");
    for(i=1;i<=100;i++)
    {
        if(i%2!=0)    //i%2!=0 or i%2==1
        {
            sum=sum+i;
        }
    }
    printf("Sum of all even numbers btw 1-100 is %d",sum);
    getch();
}

```

(44) Write a program to print the total of $1/2 + 2/3 + \dots + 9/10$.

```

#include<stdio.h>

```

```

#include<conio.h>
void main()
{
    float i,j,total=0;
    clrscr();

    i=1;
    j=2;
    do
    {
        total=total+(i/j);
        i++;
        j++;
    }
    while(i<10);

    printf("\n total is:%f",total);
    getch();
}

```

(45)Write a program to print the total of 1-2+3-4+5-6+7-8+9-10.

```

#include<stdio.h>
#include<conio.h>
void main()
{
    float i,j,total=0;
    clrscr();

    i=1;
    j=2;
    do
    {
        total=total+(i-j);
        i=i+2;
        j=j+2;
    }
    while(i<=10);

    printf("\n total is:%f",total);
    getch();
}

```

(46)Write a program to print the total of 0.1+0.02+0.003+0.0004+0.00005.

```

#include<stdio.h>
#include<conio.h>
void main()
{
    float i,j=10,total=0;
    clrscr();

    for(i=1;i<=5;i++)
    {
        total=total+(i/j);
        j=j*10;
    }
    printf("\n total is    :%f",total);

    getch();
}

```

(47)Write a program to get 1 number and display its reverse.

```

#include<stdio.h>
#include<conio.h>
void main()
{
    int no,temp;
    clrscr();
    printf("\n enter the no:");
    scanf("%d",&no);
    while(no>0)
    {
        temp=no%10;
        printf("%d",temp);
        no=no/10;
    }
    getch();
}

```

(48)Write a program to get 1 number and display sum of its digit.

(49)Write a program to get 1 number and display its factorial.

```

#include<stdio.h>
#include<conio.h>
void main()
{
    int i,fact=1,a;

```

```

    clrscr();
    printf("Enter a num :");
    scanf("%d",&a);

    for(i=1;i<=a;i++)
    {
        fact=fact*i;
    }
    printf("Factorial value of %d is: %d",a,fact);
    getch();
}

```

(50) Write a program to get 1 number and find that it' s prime or not.

(51)Write a program to print 0 1 1 2 3 5 8 13 21 34 55(Fibonacci series).

```

#include<stdio.h>
#include<conio.h>
void main()
{
    int n1=0,n2=1,n3,i,num;
    clrscr();
    printf("Enter the number of elements:-");
    scanf("%d",&num);
    printf("\n%4d%4d",n1,n2); //printing 0 and 1
    for(i=2;i<num;i++) //loop starts from 2 bcz 0 and 1 are already
printed
    {
        n3=n1+n2;
        printf("%4d",n3);
        n1=n2;
        n2=n3;
    }
    getch();
}

```

(52)

```

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

```

```

#include<conio.h>

```

```

#include<stdio.h>
void main()
{
    int i,j;
    clrscr();
    for(i=1;i<=5;i++)
    {
        for(j=1;j<=5;j++)
        {
            printf("*",i);
        }
        printf("\n");
    }
    getch();
}

```

(53)

```

12345
12345
12345
12345
12345

```

```

#include<conio.h>
#include<stdio.h>
void main()
{
    int i,j;
    clrscr();
    for(i=1;i<=5;i++)
    {
        for(j=1;j<=5;j++)
        {
            printf("%d",j);
        }
        printf("\n");
    }
    getch();
}

```

(54)

11111
22222
33333
44444
55555

```
#include<conio.h>
#include<stdio.h>
void main()
{
    int i,j;
    clrscr();
    for (i=1;i<=5;i++)
    {
        for (j=1;j<=5;j++)
        {
            printf("%d",i);
        }
        printf("\n");
    }
    getch();
}
```

(55)

1	2	3	4	5
2	4	6	8	10
3	6	9	12	15
4	8	12	16	20
5	10	15	20	25

(56)

AAAAA
BBBBB
CCCCC
DDDDD
EEEEE

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



```

#include<conio.h>
void main()
{
    clrscr();
    char i,j;
    for(i='A';i<='E';i++)
    {
        for(j='A';j<='E';j++)
        {
            printf("%c",i);
        }
        printf("\n");
    }
    getch();
}

```

(57)

```

ABCDE
ABCDE
ABCDE
ABCDE
ABCDE

```

```

#include<stdio.h>
#include<conio.h>
void main()
{
    clrscr();
    char i,j;
    for(i='A';i<='E';i++)
    {
        for(j='A';j<='E';j++)
        {
            printf("%c",j);
        }
        printf("\n");
    }
    getch();
}

```

(58)

*


```
#include<stdio.h>
#include<conio.h>
void main()
{
    clrscr();
    int i,j;
    for (i=1;i<=5;i++)
    {
        for (j=1;j<=i;j++)
        {
            printf("*");
        }
        printf("\n");
    }

    getch();
}
```

(59)

1
22
333
4444
55555

```
#include<stdio.h>
#include<conio.h>
void main()
{

    int i,j;
    clrscr();
    for (i=1;i<=5;i++)
    {
```

```

        for (j=1; j<=i; j++)
        {
            printf("%d", i);
        }
        printf("\n");
    }

    getch();
}

```

(60)

```

1
12
123
1234
12345

```

```

#include<stdio.h>
#include<conio.h>
void main()
{
    int i,j;
    clrscr();
    for (i=1; i<=5; i++)
    {
        for (j=1; j<=i; j++)
        {
            printf("%d", j);
        }
        printf("\n");
    }

    getch();
}

```

(61)

5
54
543
5432
54321

```
#include<stdio.h>
#include<conio.h>
void main()
{
    int i,j;
    clrscr();

    for(i=5;i>=1;i--)
    {
        for(j=5;j>=i;j--)
        {
            printf("%d",j);
        }
        printf("\n");
    }
    getch();
}
```

(62)

1
21
321
4321
54321

```
#include<stdio.h>
#include<conio.h>
void main()
{
    int i,j,n;
    clrscr();
    /*printf("\n Here n is the total number of rows to be printed");
    printf("\n Enter N;");
```

```

scanf("%d",&n);*/
for(i=1;i<=5;i++)
{
    //logic to print numbers
    for(j=i;j>=1;j--)
    {
        printf("%d",j);
    }
    printf("\n");
}
getch();
}

```

(63)

```

1
2  3
4  5  6
7  8  9  10
11 12 13 14 15

```

```

#include<stdio.h>
#include<conio.h>
void main()
{
    int i,j,n=1;
    clrscr();

    for(i=1;i<=5;i++)
    {
        for(j=1;j<=i;j++)
        {
            printf("%3d",n++);
        }
        printf("\n");
    }

    getch();
}

```

(64)

```
1
01
010
1010
10101
```

```
#include<stdio.h>
#include<conio.h>
void main()
{
    clrscr();
    int i,j,n=1;
    for (i=1;i<=5;i++)
    {
        for (j=1;j<=i;j++)
        {
            printf("%3d",n%2);
            n++;
        }
        printf("\n");
    }

    getch();
}
```

(65)

```
1
10
10 1
10 1 0
10 1 0 1
```

```
#include<stdio.h>
#include<conio.h>
void main()
{
    clrscr();
    int i,j,n=1;
    for (i=1;i<=5;i++)
    {
        for (j=1;j<=i;j++)
        {
            printf("%3d",j%2);
        }
    }
}
```

```

        printf("\n");
    }

    getch();
}

```

(66)

```

a
b c
d e f
g h i j
k l m n o

```

```

#include<stdio.h>
#include<conio.h>
void main()
{
    int i,j,n='a';
    clrscr();
    for(i=65;i<=69;i++)
    {
        for(j=65;j<=i;j++)
        {
            printf("%2c",n);
            n++;
        }
        printf("\n");
    }
    getch();
}

```

(67)

```

a
bb
ccc
dddd
eeee

```

```

#include<stdio.h>
#include<conio.h>
void main()
{
    int i,j;
    clrscr();
    for(i=97;i<=101;i++)
    {
        for(j=97;j<=i;j++)
        {
            printf("%2c",i);
        }
        printf("\n");
    }
    getch();
}

```

(68)

```

z
y x
w v u
t s r q
p o n m l

```

```

#include<stdio.h>
#include<conio.h>
void main()
{
    int i,j,n='z';
    clrscr();
    for(i=65;i<=69;i++)
    {
        for(j=65;j<=i;j++)
        {
            printf("%2c",n);
            n--;
        }
        printf("\n");
    }
    getch();
}

```


(69)

1
10
100
1000
10000

```
#include<stdio.h>
#include<conio.h>
void main()
{
    int a=1,b,c,d,e;
    clrscr();
    printf("\n %d",a);
    b=a*10;
    c=a*100;
    d=a*1000;
    e=a*10000;

    printf("\n %d",b);
    printf("\n %d",c);
    printf("\n %d",d);
    printf("\n %d",e);

    getch();
}
```

(70)

5
45
345
2345
12345

```
#include<stdio.h>
#include<conio.h>
void main()
{
    int i,j;
    clrscr();
    for(i=5;i>=1;i--)
    {
        //logic to print numbers
        for(j=i;j<=5;j++)
        {
            printf("%d",j);
        }
    }
}
```

```

        }
        printf("\n");
    }
    getch();
}

```

(71)

```

        *****
        *****
        ***
        **
        *
#include<stdio.h>
#include<conio.h>
void main()
{
    int i,j;
    clrscr();
    for(i=5;i>=1;i--)
    {
        for(j=1;j<=i;j++)
        {
            printf("*",j);
        }
        printf("\n");
    }

    getch();
}

```

(72)

```

        12345
        1234
        123
        12
        1

#include<stdio.h>
#include<conio.h>
void main()
{

```

```

    int i,j;
    clrscr();
    for (i=5;i>=1;i--)
    {
        for (j=1;j<=i;j++)
        {
            printf("%d",j);
        }
        printf("\n");
    }

    getch();
}

```

(73)

```

    1  2  3  4  5
    2  4  6  8
    3  6  9
    4  8
    5

```

```

#include<stdio.h>
#include<conio.h>
void main()
{
    int i,j,a=1,b=1;
    clrscr();

    for (i=1;i<=5;i++)
    {
        for (j=i;j<=5;j++)
        {
            printf("%2d",a*b);
            b++;
        }
        a++;
        b=1;
        printf("\n");
    }
    getch();
}

```

(74)

54321

5432

543

54

5

```
#include<stdio.h>
#include<conio.h>
void main()
{
    clrscr();
    int i,j;
    for (i=1;i<=5;i++)
    {
        for (j=5;j>=i;j--)
        {
            printf("%d",j);
        }
        printf("\n");
    }

    getch();
}
```

(75)

54321

4321

321

21

1

```
#include<stdio.h>
#include<conio.h>
void main()
{
    int i,j,n;
    clrscr();
    /*printf("\n Here n is the total number of rows to be printed");
    printf("\n Enter N;");
    scanf("%d",&n);*/
    for (i=5;i>=1;i--)
    {
        //logic to print numbers
        for (j=i;j>=1;j--)
```

```

        {
            printf("%d",j);
        }
        printf("\n");
    }
    getch();
}

```

(76)

```

12345
2345
345
45
5

```

```

#include<stdio.h>
#include<conio.h>
void main()
{
    int i,j;
    clrscr();
    /*printf("\n Here n is the total number of rows to be printed");
    printf("\n Enter N;");
    scanf("%d",&n);*/
    for(i=1;i<=5;i++)
    {
        //logic to print numbers
        for(j=i;j<=5;j++)
        {
            printf("%d",j);
        }
        printf("\n");
    }
    getch();
}

```

(77)

```

55555
4444
333
22
1

```

```

#include<stdio.h>
#include<conio.h>
void main()
{
    int i,j;
    clrscr();
    for(i=5;i>=1;i--)
    {
        for(j=1;j<=i;j++)
        {
            printf("%d",i);
        }
        printf("\n");
    }

    getch();
}

```

(78)

```

a b c d e
b c d e
c d e
d e
e

```

```

#include<stdio.h>
#include<conio.h>
void main()
{
    int i,j;
    clrscr();
    for(i=97;i<=101;i++)
    {
        //logic to print numbers
        for(j=i;j<=101;j++)
        {
            printf("%c",j);
        }

        printf("\n");
    }
    getch();
}

```

(79)

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

```
#include<stdio.h>
#include<conio.h>
void main()
{
    int i,j,k;
    clrscr();
    for(i=1;i<=5;i++)
    {
        for(k=4;k>=i;k--)
        {
            printf(" ");
        }
        for(j=1;j<=i;j++)
        {
            printf("*");
        }
        printf("\n");
    }

    getch();
}
```

(80)

```
      1
     22
    333
   4444
  55555
```

```
#include<stdio.h>
#include<conio.h>
void main()
{
    int i,j,k;
    clrscr();
    for(i=1;i<=5;i++)
    {
        for(k=4;k>=i;k--)
```

```

        {
            printf(" ");
        }
        for (j=1;j<=i;j++)
        {
            printf("%d",i);
        }
        printf("\n");
    }

    getch();
}

```

(81)

```

        1
       12
      123
     1234
    12345

```

```

#include<stdio.h>
#include<conio.h>
void main()
{
    int i,j,k;
    clrscr();
    for (i=1;i<=5;i++)
    {
        for (k=4;k>=i;k--)
        {
            printf(" ");
        }
        for (j=1;j<=i;j++)
        {
            printf("%d",j);
        }
        printf("\n");
    }

    getch();
}

```


(82)

5
54
543
5432
54321

```
#include<stdio.h>
#include<conio.h>
void main()
{
    int i,j,k;
    clrscr();
    for(i=5;i>=1;i--)
    {
        for(k=1;k<i;k++)
        {
            printf(" ");
        }
        for(j=5;j>=i;j--)
        {
            printf("%d",j);
        }
        printf("\n");
    }

    getch();
}
```

(83)

a
bb
ccc
dddd
eeee

```
#include<stdio.h>
#include<conio.h>
void main()
{
    int i,j,k;
    clrscr();
    for(i=1;i<=5;i++)
    {
        for(k=1;k<=5-i;k++)
        {
```

```

        printf(" ");
    }
    for (j=1;j<=i;j++)
    {
        printf("%c",i+96);
    }
    printf("\n");
}
getch();
}

```

(84)

```

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

```

```

#include<stdio.h>
#include<conio.h>
void main()
{
    clrscr();
    int i,j,k;

    for (i=1;i<=5;i++)
    {
        for (k=4;k>=i;k--)
        {
            printf(" ");
        }
        for (j=1;j<=i;j++)
        {
            printf("* ");
        }
        printf("\n");
    }
    getch();
}

```

(85) Write a program to initialize a single dimension array with 5 elements and display it.

(86) Write a program to get 5 numbers in a 1D-array and display it.

```

#include<stdio.h>
#include<conio.h>
void main()
{
    clrscr();
    char ch[]={'a','b','c','d'};

    for(int i=0;i<=3;i++)
    {
        printf("\n %c",ch[i]);
    }

    getch();
}

```

(87)Write a program to get 10 numbers in a 1D-array and find how many is positive, negative and zero.

```

#include<stdio.h>
#include<conio.h>
void main()
{
    int a[10];
    int i,b=0,c=0,d=0;
    clrscr();
    printf("\n Enter 10 no.:");

    for(i=0;i<10;i++)
    {
        scanf("%d",&a[i]);
    }
    for(i=0;i<10;i++)
    {
        if(a[i]>0)
        {
            b++;
        }
        else if(a[i]<0)
        {
            c++;
        }
        else
        {
            d++;
        }
    }
}

```

```

        printf("\n positive:%d",b);
        printf("\n negative:%d",c);
        printf("\n zero:%d",d);

        getch();
    }

```

(88) Write a program to get 10 numbers in a 1D-array and find how many numbers are odd and even.

```

#include<stdio.h>
#include<conio.h>
void main()
{
    int a[10];
    int i,b=0,c=0;
    clrscr();
    printf("\n Enter 10 no:");

    for(i=0;i<10;i++)
    {
        scanf("%d",&a[i]);

    }
    for(i=0;i<10;i++)          //do not write = sign in array program
    {
        if(a[i]%2==0)
        {
            b++;
        }
        else
        {
            c++;
        }
    }
    printf("\n Even:%d",b);
    printf("\n Odd:%d",c);

    getch();
}

```

(89) Write a program to get 10 numbers in a 1D-array and print the total of all array elements.

```

#include<stdio.h>
#include<conio.h>
void main()
{

```

```

    int a[10];
    int i,b=0;
    clrscr();
    printf("\n Enter 10 no.:");
    for(i=0;i<10;i++)
    {
        scanf("%d",&a[i]);
    }
    for(i=0;i<10;i++)
    {
        b+=a[i];
    }
    printf("\n Sum of the all no.:%d",b);

    getch();

}

```

(90) Write a program to get 5 numbers in a 1D-array and find max number from it

```

#include<stdio.h>
#include<conio.h>
void main()
{
    int a[10];
    int i,b;
    clrscr();
    printf("\n Enter 10 no:");
    for(i=0;i<10;i++)
    {
        scanf("%d",&a[i]);
    }
    b=a[0];
    for(i=0;i<10;i++)
    {
        if(a[i]>b)
        {
            b=a[i];
        }
    }
    printf("\n Max number from array  %d",b);
    getch();
}

```

(92) Write a program to get 10 numbers for an array and then get 1 number to search in that array, check it found or not.

```

#include<stdio.h>
#include<conio.h>
void main()
{
    int i,j,cnt=0;
    int a[10];
    clrscr();

    printf("Enter 10 num:-\n");
    for(i=0;i<10;i++)
    {
        scanf("%d",&a[i]);
    }
    printf("Enter num for search:-\n");
    scanf("%d",&j);
    for(i=0;i<10;i++)
    {
        if(a[i]==j)
        {
            cnt++;
        }
    }
    if(cnt==0)
    {
        printf("\n element is not found");
    }
    else
    {
        printf("\n element is found");
    }
    getch();
}

```

(93)Write a program to initialize a 2 row and 3 column 2D array and display it.

```

#include<stdio.h>
#include<conio.h>
void main()
{
    int mat[2][3];
    int i,j;
    clrscr();
    printf("Enter the value of matrix:\n");
    for(i=0;i<=1;i++)
    {
        for(j=0;j<=2;j++)
        {
            scanf("%d",&mat[i][j]);
        }
    }
}

```

```

    }
    printf("Printing array in matrix form:\n");

    for(i=0;i<=1;i++)
    {
        for(j=0;j<=2;j++)
        {
            printf("\t");
            printf("%d",mat[i][j]);
        }
        printf("\n");
    }
    getch();
}

```

(94) Write a program to get numbers for 3 rows and 3 column 2D array and display it.

```

#include<stdio.h>
#include<conio.h>
void main()
{
    int mat[3][3];
    int i,j;
    clrscr();
    printf("Enter the value of matrix:\n");
    for(i=0;i<=2;i++)
    {
        for(j=0;j<=2;j++)
        {
            printf("\n Enter array element
no:%d,%d:-",i+1,j+1);
            scanf("%d",&mat[i][j]);
        }
    }
    printf("Printing array in matrix form:\n");

    for(i=0;i<=2;i++)
    {
        for(j=0;j<=2;j++)
        {
            printf("\t");
            printf("%d",mat[i][j]);
        }
        printf("\n");
    }
    getch();
}

```

(95) Write a program to get two 3row-3col 2D arrays and print its addition.

```
#include<stdio.h>
#include<conio.h>
void main()
{
    int a[3][3],b[3][3],c[3][3];
    int i,j;
    clrscr();

    printf("Enter 1st matrix numbers:-\n");
    for(i=0;i<=2;i++)
    {
        for(j=0;j<=2;j++)
        {
            printf("Enter matrix element:-%d,%d::",i+1,j+1);
            scanf("%d",&a[i][j]);
        }
    }

    printf("Enter 2nd matrix numbers:-\n");
    for(i=0;i<=2;i++)
    {
        for(j=0;j<=2;j++)
        {
            printf("Enter matrix element:-%d,%d::",i+1,j+1);
            scanf("%d",&b[i][j]);
        }
    }

    // addition of two matrix
    printf("\n Sum of two element :-");
    for(i=0;i<=2;i++)
    {
        for(j=0;j<=2;j++)
        {
            c[i][j] = a[i][j] + b[i][j];
        }
    }

    printf("\n Resultant matrix:-\n");
    for(i=0;i<=2;i++)
    {
        for(j=0;j<=2;j++)
        {
            printf("%3d\t",a[i][j]);
        }
        printf("+");
        for(j=0;j<=2;j++)
        {
```



```

        printf("%3d\t",b[i][j]);
    }
    printf("=");
    for(j=0;j<=2;j++)
    {
        printf("%3d\t",c[i][j]);
    }
    printf("\n");
}
getch();

}

```

(96) Write a program to get values for 4row-5col 2D array and print row wise total, column wise total and grand total.

```

#include<stdio.h>
#include<conio.h>
void main()
{
    int a[4][5];
    int i,j;
    clrscr();
    printf("Enter the number of matrix:-\n");
    for(i=0;i<=3;i++)
    {
        for(j=0;j<=4;j++)
        {
            printf("Enter mat1 element:-%d%d::",i+1,j+1);
            scanf("%d",&a[i][j]);
        }
    }
    for(i=0;i<=3;i++)
    {
        for(j=0;j<=4;j++)
        {
            printf("%d",a[i][j]);
        }
        printf("\n");
    }

    getch();

}

```

(107) Create a user define function (UDF) which get and print name of user.

```
#include<stdio.h>
#include<conio.h>
void devin()
{
    printf("\n HELLO");
}
void rutu()
{
    char name[60];
    printf("\n Enter your name :");
    scanf("\n %s",&name);
    printf("\n Your name is %s",name);
}
void main()
{
    clrscr();
    devin();
    rutu();
    getch();
}
```

(108) Create a function which take 2 arguments and print its sum.

```
#include<stdio.h>
#include<conio.h>
void d()
{
    int a,b,c;
    printf("Enter num1 :",a);
    scanf("%d",&a);
    printf("Enter num2 :",b);
    scanf("%d",&b);

    c=a+b;
    printf("Your sum is : %d",c);
}
void main()
{
    clrscr();
    d();
    getch();
}
```

(111) Create a function which takes 1 argument and print it is odd or even.

```
#include<stdio.h>
#include<conio.h>
void rutu()
{
    int a;
    printf("Enter a num :");
    scanf("%d",&a);
    if(a%2==0)
    {
        printf("Here is even num %d");
    }
    else
    {
        printf("Here is odd num %d");
    }
}
void main()
{
    clrscr();
    rutu();
    getch();
}
```