**ASSIGNMENT-5**

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**1.** #include<stdio.h>

int main()

{

int i,sum,num;

sum=0;

num=10;

for(i=0;i<=num;i++)

{

sum=sum+i;

}

printf("Sumetation of natural number are %d",sum);

return(0);

}

Output:-

Sumetation of natural number are 55

**2.** #include<stdio.h>

int main()

{

int i,mult,num;

i=1;

printf("Enter the number for multiplication table ");

scanf("%d",&num);

while(i<=10)

{

mult=num\*i;

printf("%d\n",mult);

++i;

}

return(0);

}

Output:-

Enter the number for multiplication table 5

5

10

15

20

25

30

35

40

45

50

**3.** #include<stdio.h>

int main()

{

int num,sum,i;

i=0;

printf("Enter the number ");

scanf("%d",&num);

do

{

if(i%2==0)

{

i++;

}

else

{

sum=sum+i;

i++;

}

}

while(i<=num);

printf("Addition of odd numbers are %d",sum);

return(0);

}

Output:-

Enter the number 5

Addition of odd numbers are 9

**4.** #include<stdio.h>

int main()

{

int i,j,rows;

printf("Enter the rows ");

scanf("%d",&rows);

for(i=1;i<=rows;i++)

{

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

printf("\*");

printf("\n");

}

return(0);

}

Output:-

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**5.** #include<stdio.h>

int main()

{

int num,i,j,k;

k=1;

i=1;

printf("Enter the rows ");

scanf("%d",&num);

while(i<=num)

{

j=1;

while(j<=i)

{

printf("%d ",k++);

j++;

}

printf("\n");

i++;

}

}

Output:-

Enter the rows 4

1

2 3

4 5 6

7 8 9 10

**6.** #include<stdio.h>

int main()

{

int row,i,j,a,b,c=1;

printf("Enter the rows ");

scanf("%d",&row);

b=row+4-1;

for(i=1;i<=row;i++)

{

for(a=b;a>=1;a--)

{

printf(" ");

}

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

printf("%d ",c++);

printf("\n");

b--;

}

return(0);

}

Output:-

Enter the rows 4

1

2 3

4 5 6

7 8 9 10

**7.** #include<stdio.h>

int main()

{

int row,i,j,a,b;

printf("Enter the rows ");

scanf("%d",&row);

for(i=0;i<row;i++)

{

for(b=1;b<=row-i;b++)

printf(" ");

for(j=0;j<=i;j++)

{

if(j==0||i==0)

a=1;

else

a=a\*(i-j+1)/j;

printf("% 4d",a);

}

printf("\n");

}

return(0);

}

Output:-

Enter the rows 5

1

1 1

1 2 1

1 3 3 1

1 4 6 4 1

**8.** #include<stdio.h>

int main()

{

int i,f1,f2,fib,n;

printf("Enter the number of series ");

scanf("%d",&n);

printf("The series is ");

for(i=1;i<=n;++i)

{

fib=f1+f2;

f1=f2;

f2=fib;

printf(" %d ",f1);

}

return(0);

}

Output:-

Enter the number of series 4

The series is 0 1 1 2

**9.** #include<stdio.h>

int main()

{

int i,no,no1,sum;

i=1;

no1=no;

printf("Enter the number ");

scanf("%d",&no);

while(i<no)

{

if(no%i==0)

sum=sum+i;

i++;

}

if(sum==no1)

{

printf("Number is perfect");

}

else

{

printf("Number is not perfect");

}

return(0);

}

Output:-

Enter the number 6

Number is perfect

**10.** #include<stdio.h>

int main()

{

int no,no1,sum,rem;

sum=0;

printf("Enter the number ");

scanf("%d",&no);

no1=no;

while(no>0)

{

rem=no%10;

sum=sum+(rem\*rem\*rem);

no=no/10;

}

if(sum==no1)

{

printf("The number is amstrong");

}

else

{

printf("The number is not amstrong");

}

return(0);

}

Output:-

Enter the number 153

The number is amstrong

**11.** #include<stdio.h>

int main()

{

int no,a;

a=2;

printf("Enter the number ");

scanf("%d",&no);

do

{

if(no%a==0)

break;

a++;

}

while(a<no);

if(no==a)

{

printf("Number is prime");

}

else

{

printf("Number is not prime");

}

return(0);

}

Output:-

Enter the number 5

Number is prime

**12**. #include<stdio.h>

int main()

{

int no,rev,rem;

rev=0;

printf("Enter the number ");

scanf("%d",&no);

do

{

rem=no%10;

rev=(rev\*10)+rem;

no=no/10;

}

while(no!=0);

printf("Reverse number is %d",rev);

return(0);

}

Output:-

Enter the number 64

Reverse number is 46

**13.** #include<stdio.h>

int main()

{

int i,n,sum,term=9;

printf("Enter the value ");

scanf("%d",&n);

for(i=1;i<=n;i++)

{

sum=sum+term;

printf("%d\t",term);

term=term\*10+9;

}

printf("\nAddition is %d",sum);

return(0);

}

Output:-

Enter the value 4

9 99 999 9999

Addition is 11107