

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:-

*

**

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