Assignment -11

Date: 30.06.22

1. // Sum of first N natural number

```
#include <Stdio.h>
int main()
{
    int i,n,s;
    Printf(" Enter the last natural number = ");
    Scanf("%d",&n);
    for(i=1;i<=n;i++)
    {
        S=S+i;
    }
    Printf(" Sum = %d", S);
}
```

2. // Sum of first N even natural number

```
# include <Stdio.h>
int main()
{
    int n,i, s;
    Printf(" n=");
    Scanf("%d",&n);
    k=n;
    for(i=1; n>=1; i++)
    {
        if(i%2==0)
        {
            S=S+i;
            n--;
        }
    }
    Printf(" Sum of first %d
        natural number =%d",K,S);
}
```

3. // Sum of first n odd natural number

```
#include <Stdio.h>
int main()
{
    int n,i, s;
    Printf("n=");
    Scanf("%d",&n);
    K=n;
    for(i=1; n>=1; i++)
    {
        if(i%2==1)
        {
            S=S+i;
            n--;
        }
    }
    Printf(" Sum of first %d
        natural number=%d",K,S);
```

4. // Sum of Square of first n natural number

```
#include <stdio.h>
int main()
{
int n,i,s;
Printf("n=");
Scanf("%d",&n);
for(i=1;i<=n;i++)
{
   S=S+(i*i);
}
Printf" Sum of Sqsqure of first %d
      natural number=%d",n,S);
}
```

5. // Sum of cube of first n natural number

```
#include <stdio.h>
int main()
{
int n
Printf("n=");
Scanf("%d",&n);
for(i=1;i<=n;i++)
{
   S=S+(i*i*i);
}
Printf" cubes of Sum=%d",S);
}
```

6. // factorial of a number

```
#include <stdio.h>
int main()
{
int n,f=1,i;
Printf" n=");
Scanf("%d",&n);
for(i=1;i<=n;i++).
{
f=f*i;
Printf("factorial of %d is =%d",n,f);
```

7. // Count digit of a given numb

```
# include <stdio.h>
int main()
{
int &n
Printf("n=");
Scanf("%d",&n);
k=n;
while(n!=0)
{
   count++;
   n=n/10
}
Printf" Total digit=%d",count
}
```

8 // wheather a given number is Prime or not

```
#include <stdio.h>
int main()
{
int n,i,count=1;
Printf("n=");
Scanf("%d",&n);
for(i=2,i<=n/2;i++)
{
   r=n%i
   if(r==0)
      count++;
}
if(count==1)
Printf("%d Prime number",n);
else
Printf" not a prime number");
}
```

9. // LCM of two number

```
#include <Stdio.h>
int main()
{
    int m,n,max
    Printf("Enter two number =");
    Scanf("%d %d", &m, &n);
    max = m>n ? m:n;
    while (1)
    {
        if(max%m ==0 && max%n==0)
        {
            Printf("LCM of %d and %d =%d",m,n,max);
            break;
        }
        else
        max++;
    }
}
```

10. // Reverse a given number

```
#include <Stdio.h>
int main()
{
    int n,rev=0,r;
    Printf("n=");
    Scanf("%d",&n);
    while (n!=0)
    {
        r=n%10;
        rev=rev*10+r;
        n=n/10;
    }
    Printf("Reverse =%d",rev);
```