## 1. CHECKING POSITIVE, NEGATIVE OR ZERO

```
Write a C++ program to input a number and check whether it is negative, positive or zero.
#include <iostream>
using namespace std;
int main()
{
       int N;
       cout<<"Enter the number";
       cin>>N;
       if (N>0)
              cout<<"\n The given number is positive";
       else if(N<0)
              cout<<"\n The given number is negative";
       else
              cout<<"\n The given number is zero";
       return 0;
}
                                            2.MULTIPLICATION TABLE
Write a C++ program to display the multiplication table of a number having 12 rows.
#include <iostream>
using namespace std;
int main()
{
       int n, i, p;
       cout<<"Enter the number";
       cin>> n;
       cout<<"\n MULTIPLICATION TABLE";
       for(i=1;i<=12;i++)
       {
              p=i*n;
              cout<<"\n"<<i<" * "<<n<<" = "<<p;
       return 0;
}
                                                 3.SUM OF DIGITS
Write a program to find the sum of the digits of an integer number.
#include <iostream>
using namespace std;
int main()
{
       int num, sum=0;
       cout<<"Enter the number";
       cin>>num;
       while(num>0)
       sum=sum+num%10;
       num=num/10;
```

cout<<"\nSum of digits:"<<sum;

```
return 0;
}
```

case 2:

## **4.SUM OF SQUARES**

```
Write a program to find the sum of the squares of the first N natural numbers without using any formula.
#include <iostream>
using namespace std;
int main()
{
       int N, i, sum=0;
       cout<<"Enter the limit";
       cin>>N;
       for (i=1; i<=N; i++)
              sum = sum + i*i;
       cout<<"\n Sum of squares of first "<<N<<"natural numbers="<<sum;
       return 0;
       }
                                               5. FIBONACCI SERIES
Write a program to display the first N terms of Fibonacci series.
#include <iostream>
using namespace std;
int main()
{
       int i, N, first=0, second=1, third;
       cout<<"How many terms";
       cin>>N;
       cout<<"Fibanocci Series\n";</pre>
       for(i=1; i<=N;i++)
              third=first+second;
              cout<<"\n"<<third;
              first=second;
              second=third;
       }
       return 0;
}
                                            6. DISPLAY DAY NAME
Write a program using switch to display the name of the day when we input a day number
#include <iostream>
using namespace std;
int main()
{
       int day;
       cout<<"\n Enter the day number";
       cin>>day;
       switch(day)
       {
       case 1:
              cout <<"Sunday";
              break;
```

```
cout <<"Monday";
               break;
       case 3:
               cout <<"Tuesday";
               break;
       case 4:
               cout <<"Wednesday";</pre>
               break;
       case 5:
               cout <<"Thursday";</pre>
               break;
       case 6:
               cout <<"Friday";</pre>
               break;
       case 7:
               cout <<"Saturday";</pre>
               break;
       default:
               cout<<"Invalid Choice";</pre>
return 0;
}
                                    7. COUNT OF EVEN AND ODD NUMBERS
Write a C++ program to create an array of 10 numbers and count the number of even numbers and odd numbers
in the array
#include <iostream>
using namespace std;
```

# 

odd++;

cout<<"\n Number of even numbers="<<even; cout<<"\n Number of odd numbers="<<odd;</pre>

return 0;

}

}

else

#### 8. WORDS OF A STRING

Write a program to input a string and find the number of words in a string. #include <iostream> #include <cstdio> using namespace std; int main()

## 9. CHECKING PRIME NUMBER

```
Write a program to check whether a number is a prime or not.
#include <iostream>
#include <cstdio>
using namespace std;
int main()
short int n, i,flag=1;
cout<<"Enter the number";
cin>>n;
for (i=2; i<=n/2; i++)
{
       if (n %i==0)
               flag=0;
               break;
       }
}
If (flag==1)
       cout<<n<<" is a prime number";</pre>
else
       cout<<n<<" is not a prime number";</pre>
return 0;
}
```

### **10. FACTORIAL OF A NUMBER**

```
Write a program to find the factorial of a number with the help of a user-defined function #include <iostream>
using namespace std;
int factorial(int);
int main()
{
int num,fact;
cout<<"Enter a number";
cin>>num;
```