## CODE

```
#include<iostream>
#include<math.h>
using namespace std;
int main()
    float a, b, c, s, radius, area;
    int ch;
    cout<<"1.Area Of Circle";</pre>
    cout<<"\n2.Area Of Rectangle";</pre>
    cout<<"\n3.Area Of Triangle \n";</pre>
    cout<<"\nEnter our choice number: ";</pre>
    cin>>ch;
    switch(ch){
        case 1:
             cout<<"\nEnter the Radius of Circle: ";</pre>
             cin>>radius;
             area=3.14159*radius*radius;
             cout<<"Area of Circle = "<<area<<endl;</pre>
         }
        case 2:
             cout<<"\nEnter the Length and Breadth of Rectangle:";</pre>
             cin>>a>>b;
             area=a*b;
             cout<<"Area of Rectangle = "<<area<<endl;</pre>
             break;
         }
        case 3:
             cout<<"\nEnter All Three Sides of Triangle with 3 Sides:";</pre>
             cin>>a>>b>>c;
             s=(a+b+c)/2;
             area=sqrt(s*(s-a)*(s-b)*(s-c));
             cout<<"Area of Triangle = "<<area<<endl;</pre>
             break;
        default: cout<<"\n Invalid Choice Try Again...!!!";</pre>
             break;
    return 0;
```

```
PS D:\C++> cd "d:\C++\" ; if ($?) { g++ areafn.cpp -0 areafn } ; if ($?) { .\areafn }
1.Area Of Circle
2.Area Of Rectangle
3.Area Of Triangle

Enter our choice number: 2

Enter the Length and Breadth of Rectangle:7 8

Area of Rectangle = 56

PS D:\C++>
```

Q2

CODE

```
#include <iostream>
using namespace std;
int main() {
    int low, high, i;
    bool isPrime = true;
    cout << "Enter two numbers (intervals): ";</pre>
    cin >> low >> high;
    cout << "\nPrime numbers between " << low << " and " << high << " are: " <</pre>
< endl;</pre>
    while (low < high) {</pre>
        isPrime = true;
        if (low == 0 || low == 1) {
             isPrime = false;
        else {
             for (i = 2; i \le low / 2; ++i) {
                 if (low % i == 0) {
                      isPrime = false;
                      break;
                 }
        if (isPrime)
             cout << low << " ";</pre>
        ++low;
    return 0;
```

OUTPUT

```
PS D:\C++> cd "d:\C++\"; if ($?) { g++ prime.cpp -0 prime }; if ($?) { .\prime }
Enter two numbers (intervals): 1 100

Prime numbers between 1 and 100 are:
2 3 5 7 11 13 17 19 23 29 31 37 41 43 47 53 59 61 67 71 73 79 83 89 97
PS D:\C++>
```

CODE

```
#include <iostream>
using namespace std;
int sumofdigits(int);
int main()
  int n,s;
  cout<<"Input a number : ";</pre>
  cin>>n;
  s=sumofdigits(n);
  cout <<"Sum of Digits of "<<n<<" is "<<s;</pre>
  return 0;
int sumofdigits(int n)
  int s=0,rem=0;
 while(n>0)
     rem=n%10;
     s+=rem;
     n=n/10;
  return s;
```

## OUTPUT

```
PS D:\C++> cd "d:\C++\" ; if ($?) { g++ sumofdig.cpp -0 sumofdig } ; if ($?) { .\sumofdig } Input a number : 567
Sum of Digits of 567 is 18
PS D:\C++> ■
```

```
#include<iostream>
using namespace std;
void lcm(int,int);
int main(){
    int a,b;
    cout<<"Enter 1st number: ";</pre>
    cin>>a;
    cout<<"\nEnter 2nd number: ";</pre>
    cin>>b;
    1cm(a,b);
    return 0;
void lcm(int a,int b){
    int m,n;
    m=a;
    n=b;
    while(m!=n)
        if(m < n)
        m=m+a;
        else
            n=n+b;
    cout<<"\nL.C.M of "<<a<<" and "<<b<<" is: "<<m<<"\n";</pre>
```

OUTPUT

```
PS D:\C++> cd "d:\C++\" ; if ($?) { g++ lcm.cpp -0 lcm } ; if ($?) { .\lcm } Enter 1st number: 7

Enter 2nd number: 4

L.C.M of 7 and 4 is: 28
PS D:\C++> ■
```