1. Write a C++ program to print Hello MySirG on the screen.

```
#include<iostream>
using namespace std;
int main()
{
    cout<<"Hello MySirG";
    return 0;
}
================================================================================
Output:
Hello MySirG
```

2. Write a C++ program to print Hello on the first line and MySirG on the second line using endl.

```
#include<iostream>
using namespace std;
int main()
{
    cout<<"Hello"<<endl<<"MySirG";
    return 0;
}
================================================================================
Output:
Hello
MySirG
```

3. Write a C++ program to calculate the sum of two numbers.

```
#include <iostream>
using namespace std;
int main()
{
    int a, b;
    cout << "Enter two numbers : ";
    cin >> a >> b;
    cout << "The sum of " << a << " and " << b << " is " << a + b;
    return 0;
}
================================================================================
Output:
Enter two numbers : 25 30
The sum of 25 and 30 is 55
```

4. Write a C++ program to calculate the area of a circle

```
#include<iostream>
using namespace std;
int main()
{
    double pi = 3.14159, r, area;
    cout<<"Enter radius of a circle : ";
    cin>>r;
    area = pi * r * r;
```

```
    cout<<"Area of a circle is "<<area <<" unit";
    return 0;
}
================================================================================
Output:
Enter radius of a circle : 5.32
Area of a circle is 88.9145 unit
```

5. Write a C++ program to calculate the volume of a cuboid.

```
#include <iostream>
using namespace std;
int main()
{
    float l, b, h, volume;
    cout << "Enter length, width and height of a cuboid respectively : ";
    cin >> l >> b >> h;
    volume = l * b * h;
    cout << "The volume of a cuboid " << volume << " unit cube";
    return 0;
}
================================================================================
Output:
Enter length, width and height of a cuboid respectively : 12.35 25.32 10.65
The volume of a cuboid 3330.28 unit cube
```

6. Write a C++ program to calculate an average of 3 numbers.

```
#include <iostream>
using namespace std;
int main()
{
    float a, b, c;
    cout << "Enter three numbers respectively : ";
    cin >> a >> b >> c;
    cout << "Average of " << a << ", " << b << " and " << c << " is " << (a +
b + c) / 3.0;
    return 0;
}
================================================================================
Output:
Enter three numbers respectively : 10 15 25
Average of 10, 15 and 25 is 16.6667
```

7. Write a C++ program to calculate the square of a number

```
#include <iostream>
using namespace std;
int main()
{
    float a;
    cout << "Enter a number to calculate square : ";
    cin >> a;
    cout << "Square of " << a << " is " << a * a;
    return 0;
}
================================================================================
Output:
Enter a number to calculate square : 5
Square of 5 is 25
```

8. Write a C++ program to swap values of two int variables without using third variable

```
#include <iostream>
using namespace std;
int main()
```

```
{
    int a, b;
    cout << "Enter two numbers : ";
    cin >> a >> b;
    cout << "Before Swapping" << endl;
    cout << "a = " << a << endl;
    cout << "b = " << b << endl;
    a = a + b;
    b = a - b;
    a = a - b;
    cout << "After Swapping" << endl;
    cout << "a = " << a << endl;
    cout << "b = " << b << endl;
    return 0;
}
================================================================================
Output:
Enter two numbers : 25 10
Before Swapping
a = 25
b = 10
After Swapping
a = 10
b = 25
```

9. Write a C++ program to find the maximum of two numbers.

```
#include <iostream>
using namespace std;
int main()
{
    int a, b, result;
    cout << "Enter two numbers : ";
    cin >> a >> b;
    result = (a > b) ? a : b;
    cout << "Maximum is " << result;
    return 0;
}
================================================================================
Output:
Enter two numbers : 50 20
Maximum is 50
```

10. Write a C++ program to add all the numbers of an array of size 10.

```
#include <iostream>
using namespace std;
int main()
{
    int a[10], sum = 0, i;
    cout << "Enter 10 numbers : ";
    for (i = 0; i < 10; i++)
    {
        cin >> a[i];
        sum = sum + a[i];
    }
    cout << "Sum of all numbers is " << sum;
    return 0;
}
================================================================================
Output:
Enter 10 numbers : 10 20 30 40 50 60 70 80 90 100
Sum of all numbers is 550
```