Assignment - 23

Basics of C++

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

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

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";
}
```

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

```
#include<iostream>
using namespace std;
int main()
{
    int a,b;
    cin>>a>>b;
    cout<<a+b;
```

```
    return 0;

}
```

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

```cpp
#include<iostream>

using namespace std;

int main()

{

    int a;

    cout<<"enter the radius:";

    cin>>a;

    cout<<"\n area of circle is "<<3.14*a*a<<"sq unit";

    return 0;

}
```

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

```cpp
#include<iostream>

using namespace std;

int main()

{

    int a,b,c;

    cout<<"enter the side of cube: ";

    cin>>a>>b>>c;

    cout<<"volume of cuboid: "<<a*b*c<<" unit cube";

    return 0;

}
```

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

```cpp
#include<iostream>

using namespace std;

int main()
```

```cpp
{
    int a,b,c;
    cout<<"enter 3 number: ";
    cin>>a>>b>>c;
    cout<<"average of 3 number is "<<(a+b+c)/3;
}
```

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

```cpp
#include<iostream>
using namespace std;
int main()
{
    int a;
    cout<<"enter any number: ";
    cin>>a;
    cout<<"square of any number is "<<a*a;
    return 0;
}
```

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

```cpp
#include<iostream>
using namespace std;
int main()
{
    int a,b;
    cout<<"enter two number: ";
    cin>>a>>b;
    a=a+b;
    b=a-b;
```

```cpp
        a=a-b;

        cout<<"a = "<<a<<" b = "<<b;

        return 0;

    }
```

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

```cpp
#include<iostream>

using namespace std;

int main()

{

    int a,b;

    cout<<"enter two number: ";

    cin>>a>>b;

     a<b?cout<<b:cout<<a;

     return 0;

}
```

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

```cpp
#include <iostream>

using namespace std;

int main()

{

    int arr[10], sum = 0;

    for (int i = 0; i < 10; i++)

    {

        cin >> arr[i];

        sum = sum + arr[i];

    }

    cout<<"sum of array is "<<sum;

    return 0;
```

}