

Assignment – 23

A Job Ready Bootcamp in C++, DSA and IOT Basics of C++

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

Ans:-

```
#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.

Ans:-

```
#include <iostream>
using namespace std;

int main()
{
    cout<<"Hello";
    cout<<endl;
    cout<<"MySirG";

    return 0;
}
```

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

Ans:-

```
#include <iostream>
using namespace std;
int main() {
    int a,b,sum;
    cout<<"enter two number";
    cin>>a>>b;
    sum=a+b;
    cout<<"sum of "<<a<<" and " <<b<<" is " <<sum;
    return 0;
}
```

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

Ans:-

```
#include<iostream>
using namespace std;
int main()
{
    int r;
    float a;
    cout<<"enter the radius";
    cin>>r;
    a=3.14*r*r;
    cout<<"area of circle is"<<a;
    return 0;
}
```

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

Ans:-

```
#include<iostream>
using namespace std;
int main()
{
    int l,w,h,volume;
    cout<<"enter length, width, height";
    cin>>l>>w>>h;
    volume=l*w*h;
    cout<<"volume of a cuboid "<<volume;
    return 0;
}
```

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

Ans:-

```
#include<iostream>
using namespace std;
int main()
{
    int a,b,c,sum;
    float avg;
    cout<<"enter three number";
    cin>>a>>b>>c;
    sum=a+b+c;
    avg=sum/3.0;
    cout<<"average is "<<avg;
    return 0;
}
```

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

Ans:-

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

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

Ans:-

```
#include<iostream>
using namespace std;
int main()
{
    int a,b;
    cout<<"enter two number";
    cin>>a>>b;
    a=a+b;
    b=a-b;
    a=a-b;
    cout<<"swap value "<<" a="<<a<<" and " <<" b="<<b;
    return 0;
}
```

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

Ans:-

```
#include<iostream>
using namespace std;
int main()
{
    int a,b,max;
    cout<<"enter two number";
    cin>>a>>b;
    if(a<b)
        max=b;
    else
        max=a;
    cout<<"maximum is "<<max;
    return 0;
}
```

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

Ans:-

```
#include <iostream>
using namespace std;

int main() {
    int a[10],x,sum=0,i=0;
    cout<<"enter 10 number"<<endl;
    for(i=0;i<10;i++)
    {
        cin>>x;
        sum=sum+x;
    }
    cout<<sum;

    return 0;
}
```