**Assignment - 23 A Job Ready Bootcamp in C++, DSA and IOT MySirG**

**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";

return 0;

}

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 number: ";

cin>>a>>b;

cout<<"Sum of a and b is "<<a+b;

return 0;

}

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

#include<iostream>

using namespace std;

int main()

{

int r;

float area;

cout<<"Enter radius of circle: ";

cin>>r;

area=3.14\*r\*r;

cout<<"Area of circle= "<<area;

return 0;

}

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

#include<iostream>

using namespace std;

int main()

{

int l,w,h;

cout<<"Enter value of length,width and height of cuboid: ";

cin>>l>>w>>h;

cout<<"Volume of cuboid= "<<l\*w\*h;

return 0;

}

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

#include<iostream>

using namespace std;

int main()

{

int a,b,c;

cout<<"Enter three number: ";

cin>>a>>b>>c;

cout<<"Average = "<<(a+b+c)/3;

return 0;

}

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

#include<iostream>

using namespace std;

int main()

{

int num;

cout<<"Enter a number: ";

cin>>num;

cout<<"Square = "<<num\*num;

return 0;

}

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 number a and b: ";

cin>>a>>b;

a=a\*b;

b=a/b;

a=a/b;

cout<<"After swapping a="<<a<<" "<<"b="<<b;

return 0;

}

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

#include <iostream>

using namespace std;

int main()

{

int x, y;

cout << "Enter two numbers: ";

cin >> x >> y;

if (x > y)

{

cout << "Max is " << x;

}

else

{

cout << "Max is " << y;

}

return 0;

}

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

#include <iostream>

using namespace std;

int main()

{

int i,arr[10],sum=0;

for(i=1; i<10; i++)

{

cout<<"Enter number: ";

cin>>arr[i];

sum=sum+arr[i];

}

cout<<"Sum= "<<sum;

return 0;

}