**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.

Sol – 1.

#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.

Sol – 2.

#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.

Sol – 3.

#include<iostream>

using namespace std;

int main()

{

int x,y;

cout<<"Enter the value of two numbers : ";

cin>>x>>y;

cout<<"Sum : "<<x+y;

return 0;

}

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

Sol – 4.

#include<iostream>

using namespace std;

int main()

{

int x;

cout<<"Enter the value of radius : ";

cin>>x;

cout<<"Area of circle : "<<3.14\*x\*x;

return 0;

}

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

Sol – 5.

#include<iostream>

using namespace std;

int main()

{

int x,y,z;

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

cin>>x>>y>>z;

cout<<"Volume of cuboid : "<<x\*y\*z;

return 0;

}

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

Sol – 6.

#include<iostream>

using namespace std;

int main()

{

int x,y,z;

cout<<"Enter three numbers : ";

cin>>x>>y>>z;

cout<<"Average : "<<(x+y+z)/3.0;

return 0;

}

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

Sol – 7.

#include<iostream>

using namespace std;

int main()

{

float x;

cout<<"Enter a number : ";

cin>>x;

cout<<"Square of "<<x<<" is "<<x\*x;

return 0;

}

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

Sol – 8.

#include<iostream>

using namespace std;

int main()

{

int x,y;

cout<<"Enter value of x and y : ";

cin>>x>>y;

x=x+y;

y=x-y;

x=x-y;

cout<<"After Swapping"<<endl<<"Value of x and y is "<<x<<" "<<y;

return 0;

}

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

Sol – 9.

#include<iostream>

using namespace std;

int main()

{

int x,y;

cout<<"Enter two numbers : ";

cin>>x>>y;

if(x>y)

cout<<x<<" is greater";

else if(y>x)

cout<<y<<" is greater";

else

cout<<"Both are equal";

return 0;

}

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

Sol – 10.

#include<iostream>

using namespace std;

int main()

{

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

cout<<"Enter 10 numbers : ";

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

{

cin>>a[i];

sum=sum+a[i];

}

cout<<"Sum : "<<sum;

return 0;

}