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

**Basics of C++**

**Abhishek Kumar**

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

#include<iostream>

using namespace std;

int main()

{

    cout <<"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;

    cout <<"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 the two numbers:";

    cin >> a >> b;

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

    return 0;

}

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

#include<iostream>

using namespace std;

int main()

{

    int area,radius;

    cout <<"Enter a radius:";

    cin >> radius;

    area = 3.14\*radius\*radius;

    cout << "Area of circle\t" <<area;

    return 0;

}

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

#include<iostream>

using namespace std;

int main()

{

    int l,b,h;

    int volume;

    cout << "Enter the length:";

    cin >> l;

    cout << "Enter the breath:";

    cin >> b;

    cout << "Enter the hight:";

    cin >> h;

    volume = l\*b\*h;

    cout << volume;

    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;

    float avg;

    cout << "Enter the first number:";

    cin >> a;

    cout << "Enter the second number:";

    cin >> b;

    cout << "Enter the third number:";

    cin >> c;

    avg = a+b+c/3.0;

    cout << avg;

    return 0;

}

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

#include<iostream>

using namespace std;

int main()

{

    int a,b;

    cout << "Enter a number:";

    cin >> a;

    b = a\*a;

    cout <<"Square of the number:" << b;

    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 the two number:";

    cin >> a >> b;

    cout << "Before swapping"<< endl << "a = " << a << " b = " << b;;

    a = a+b;

    b = a-b;

    a = a-b;

    cout  << endl <<"After swapping:"<< endl << "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 a,b;

    cout << "Enter the two number:";

    cin >> a >> b;

    if(a>b)

    {

        cout << a << " " << "is maximum";

    }

    else

    {

        cout << b << " " << "is maximum";

    }

    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 a[10],i,n,add=0;

    cout << "Enter the size of elements:";

    cin >> n;

    cout << "Enter the array elements:" << n << endl;

    for(i=0; i<n; i++)

    {

        cin >> a[i];

    }

    for(i=0; i<n; i++)

    {

        add = add+a[i];

    }

    cout << "Add all the numbers " << add;

    return 0;

}