**Assignment-23 Solution Name: Om Pant**

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

Ans-

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

#include<iostream>

using namespace std;

int main(){

    cout<<"Hello iNeuron";

    return 0;

}

1. Write a C++ program to print **Hello** on the first line and **iNeuron** on the second line using endl.

Ans-

// 2. Write a C++ program to print Hello on the first line and iNeuron on the second line using  endl.

#include<iostream>

using namespace std;

int main(){

    cout<<"Hello"<<endl<<"iNeuron";

    return 0;

}

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

Ans-

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

#include<iostream>

using namespace std;

int main(){

    int num1,num2,sum;

    cout<<"Enter two numbers"<<endl;

    cin>>num1>>num2;

    sum = num1+num2;

    cout<<"Sum: "<<sum;

    return 0;

}

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

Ans-

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

#include<iostream>

using namespace std;

int main(){

    float radius,area;

    cout<<"Enter Radius of circle"<<endl;

    cin>>radius;

    area = 3.14 \* radius \*radius;

    cout<<"Area of Circle having radius : "<<radius<<" is : "<<area<<endl;

    return 0;

}

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

Ans-

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

#include<iostream>

using namespace std;

int main(){

    float length,width,height,area;

    cout<<"Enter Length: ";

    cin>>length;

    cout<<"Enter Width: ";

    cin>>width;

    cout<<"Enter Height: ";

    cin>>height;

    area = length \* width \* height;

    cout<<"Area of cuboid: "<<area<<endl;

    return 0;

}

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

Ans-

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

#include<iostream>

using namespace std;

int main(){

    int num1,num2,num3,avg;

    cout<<"Enter three numbers"<<endl;

    cin>>num1>>num2>>num3;

    avg = (num1+num2+num3)/3;

    cout<<"Average: "<<avg;

    return 0;

}

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

Ans-

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

#include<iostream>

using namespace std;

int main(){

    float num;

    cout<<"Enter a number: "<<endl;

    cin>>num;

    cout<<"Square :"<<num\*num<<endl;

    return 0;

}

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

Ans-

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

#include<iostream>

using namespace std;

int main(){

    int num1,num2;

    cout<<"Enter 1st Number: ";

    cin>>num1;

    cout<<"Enter 2nd number: ";

    cin>>num2;

    num1 = num1 + num2;

    num2 = num1-num2;

    num1 = num1-num2;

    cout<<"After swapping"<<endl;

    cout<<"Number 1: "<<num1<<endl<<"Number 2: "<<num2<<endl;

    return 0;

}

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

Ans-

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

#include<iostream>

using namespace std;

int main(){

    int num1,num2,max;

    cout<<"Enter 1st Number: ";

    cin>>num1;

    cout<<"Enter 2nd number: ";

    cin>>num2;

    max = (num1>num2)?num1:num2;

    cout<<"Maximum: "<<max<<endl;

    return 0;

}

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

Ans-

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

#include<iostream>

using namespace std;

int main(){

    int num[10],sum=0;

    cout<<"Enter 10 array elements"<<endl;

    for(int i=0;i<10;i++)

        cin>>num[i];

    for(int i=0;i<10;i++)

        sum+=num[i];

    cout<<"Sum of array elements: "<<sum<<endl;

    return 0;

}