Wednesday, 19 January 2022

Q1 – Declare a class employee.

Solution - ../Programs/00\_Class.cpp

*// Declare a class for Employees*

#include <iostream>

using namespace std ;

class *Employee* {

    int id ;

    char name[30] ;

    float ctc ;

} ;

int main () {

*Employee* roy, agr ;

    return 0;

}

Thursday, 20 January 2022

Q1 Program to find the largest among three integer.

Solution - ../Program/04\_Practice.cpp

#include <iostream>

using namespace std;

int max(int a, int b, int c)

{

    if (a > b && a > c)

    {

        return a;

    }

    else if (b > a && b > c)

    {

        return b;

    }

    else

    {

        return c;

    }

}

int main()

{

    int a, b, c;

    cout << "Enter a, b, c " << endl;

    cin >> a >> b >> c;

    cout << "Largest number is " << max(a, b, c) << endl;

    return 0;

}

Q2 Write a Program to find the sum of natural numbers.

Solution – ../Program/04\_Practice.cpp

#include <iostream>

using namespace std;

int sumN(int n)

{

    if (n == 0)

    {

        return 0;

    }

    else

    {

        return n + sumN(n - 1);

    }

}

int main()

{

    int n;

    cout << "Enter no. of terms " << endl;

    cin >> n;

    cout << "Sum of " << n << " natural number is " << sumN(n) << endl;

    return 0;

}

Q3 WAP to check if a number is prime or not.

Solution – ../Program/04\_Practice.cpp

#include <iostream>

using namespace std;

int isPrime(int a)

{

    if (a == 1)

    {

        return 0;

    }

    for (int i = 2; i <= a / 2; i++)

    {

        if (a % i == 0)

        {

            return 0;

        }

    }

    return 1;

}

int main()

{

    int n;

    cout << "Enter Number " << endl;

    cin >> n;

    cout << "Isprime : " << isPrime(n) << endl;

    return 0;

}

Q4 WAP to display the Fibonacci series.

Solution – ../Program/04\_Practice.cpp

#include <iostream>

using namespace std;

int Fibonnaciterm(int n)

{

    if (n == 1)

    {

        return 0;

    }

    else if (n == 2)

    {

        return 1;

    }

    else

    {

        return Fibonnaciterm(n - 1) + Fibonnaciterm(n - 2);

    }

}

int main()

{

    int n;

    cout << "Enter n " << endl;

    cin >> n;

    for (int i = 1; i <= n; i++)

    {

        cout << Fibonnaciterm(i) << " "  ;

    }

    return 0;

}

Q5 – What is a class?

Answer – A class is a collection of different data and functions.

Q7 – What is an object?

Answer - An object is an instance of class referring to a real entity.