**Programming Fundamentals**

**Assignment 01**

//Task 1

// Print Hello Worrld

internal class Program

{

private static void Main(string[] args)

{

Console.WriteLine("Hello, World!");

}

}

//Task 2

// Print Hello World with a name

internal class Program

{

private static void Main(string[] args)

{

Console.WriteLine("Enter the name :");

string Name = Console.ReadLine();

Console.WriteLine("Hello," + Name);

}

}

//Task 3

// Take two numbers from user and Print the Sum of it

internal class Program

{

private static void Main(string[] args)

{

Console.WriteLine("Enter the First Number :");

int FirstNum = int.Parse(Console.ReadLine());

Console.WriteLine("Enter the Second Number :");

int SecondNum = int.Parse(Console.ReadLine());

int Sum = FirstNum + SecondNum;

Console.WriteLine("The Sum of Two Numbers = " + Sum);

}

}

//Task 4

// Take a numbers from user and Print the Square of it

internal class Program

{

private static void Main(string[] args)

{

Console.WriteLine("Enter the Number :");

int Number = int.Parse(Console.ReadLine());

int Square = Number \* Number;

Console.WriteLine("The Square of a Number = " + Square);

}

}

//Task 5

// A program that prints all even numbers between 1 to 100

internal class Program

{

private static void Main(string[] args)

{

Console.WriteLine("Even numbers between 1 to 100 are =");

for (int i=2; i<=100; i+=2)

{

Console.WriteLine(i);

}

}

}

//Task 6

// A program that prints the sum of numbers 1 to n

internal class Program

{

private static void Main(string[] args)

{

Console.WriteLine("Enter the number = n = ");

int Number = int.Parse(Console.ReadLine());

int Sum = 0;

for (int i = 1; i <= Number; i++)

{

Sum += i;

}

Console.WriteLine("The Sum of numbers 1 to n : " + Sum);

}

}

//Task 7

// A program that prints a multiplication table for numbers upto 12

internal class Program

{

private static void Main(string[] args)

{

Console.WriteLine("Enter the number = ");

int Number = int.Parse(Console.ReadLine());

Console.WriteLine("The table of a Number up to 12 is given :");

for (int i=1; i<=12; i++)

{

Console.WriteLine(Number + "x" + i + "=" + Number \* i);

}

}

}

//Task 9

// A program that prints the factorial of a Number n

internal class Program

{

private static void Main(string[] args)

{

Console.WriteLine("Enter the number = n = ");

int Number = int.Parse(Console.ReadLine());

int Factorial = 1;

for (int i = 1; i <= Number; i++)

{

Factorial = Factorial \* i;

}

Console.WriteLine("The Factorial of a number is : " + Factorial );

}

}

//Task 10

// A program that prints Fibonacci Sequence up to n terms

internal class Program

{

private static void Main(string[] args)

{

int FirstNum = 0; //First number of Fibonacci Sequence

int SecondNum = 1; //Second number of Fibonacci Sequence

Console.WriteLine("Enter the number = n = ");

int Number = int.Parse(Console.ReadLine());

Console.WriteLine("Fibonacci Sequence up to n number : ");

Console.WriteLine(FirstNum);

Console.WriteLine(SecondNum);

for (int i=2; i<Number; i++)

{

int ThirdNum = FirstNum + SecondNum; //Third number of Fibonacci Sequence

FirstNum = SecondNum;

SecondNum = ThirdNum;

Console.WriteLine(ThirdNum);

}

}

}