**C# Basic Assignment**

**Q.1 Create Program Hello Word**

using System;

namespace HelloWord

{

class Program

{

static void Main(string[] args)

{

Console.WriteLine("Hello World!");

}

}

}

**Output**

Hello World!

**Q.2 Use Data Type , loop, switch, variable, identifier, Keyword**

using System;

namespace Calculator

{

class Program

{

static void Main(string[] args)

{

int num1;

int num2;

string operand;

/\*string status;\*/

int answer;

do

{

Console.Write("Enter First Number : ");

num1 = Convert.ToInt32(Console.ReadLine());

Console.Write("Enter Second Number : ");

num2 = Convert.ToInt32(Console.ReadLine());

Console.Write("Please enter an operand:- ");

operand = Console.ReadLine();

switch (operand)

{

case "+":

answer = num1 + num2;

break;

case "-":

answer = num1 - num2;

break;

case "\*":

answer = num1 \* num2;

break;

case "/":

answer = num1 / num2;

break;

default:

answer = 0;

break;

}

Console.WriteLine(answer);

Console.WriteLine("Do you want to continue (Y/N)? ");

}while (Console.ReadLine() != "Y");

}

}

}

**Output**

Enter First Number : 10

Enter Second Number : 20

Please enter an operand:- +

30

Do you want to continue (Y/N)?

Y

**Q.3 Use Oops**

using System;

namespace Oops

{

public class Emp

{

int empid;

string empname;

double salary;

static void Main(string[] args)

{

Emp e = new Emp();

e.empid = 1;

e.empname ="Shreyas Tamboli";

e.salary = 8000.00;

Console.WriteLine("Employee ID:-" + e.empid);

Console.WriteLine("Employee Name:-" + e.empname);

Console.WriteLine("Employee Salary:-" + e.salary);

}

}

}

**Output**

Employee ID:-1

Employee Name:-Shreyas Tamboli

Employee Salary:-8000

**Q.4 Use Constructor(Default and Parameter)**

using System;

namespace Constructor

{

public class Program

{

int fno;

int sno;

int ans;

public Program()

{

fno = 0;

sno = 0;

Console.WriteLine("Default Constructor");

}

public Program(int i, int j)

{

fno = i;

sno = j;

}

public void AddDisplay()

{

ans = fno + sno;

Console.WriteLine("Addition is:- " + ans);

}

static void Main(string[] args)

{

Program p = new Program(10,20);

p.AddDisplay();

}

}

}

**Output:-**

Addition is:- 30

**Q.5 Use Inheritance**

**1. Single Inheritance**

using System;

namespace Inheritance

{

public class Emp

{

string name;

public void disname()

{

name = "Shreyas Tamboli";

Console.WriteLine("Name:-" + name);

}

}

public class Dept : Emp

{

string deptname;

double salary;

public void details()

{

deptname = "Trainee";

salary = 8000.00;

Console.WriteLine("Department:-" + deptname);

Console.WriteLine("Salary" + salary);

}

}

class Program {

static void Main(string[] args)

{

Dept d = new Dept();

d.disname();

d.details();

}

}

}

**Output**

Name:-Shreyas Tamboli

Department:-Trainee

Salary8000

**2. Multilevel Inheritance**

using System;

namespace multilevel

{

public class Student

{

string name;

public Student()

{

name = "Shreyas Tamboli";

}

public void Displaystudent()

{

Console.WriteLine("Name:-" + name);

}

}

public class Subject :Student

{

string sub = "C++";

public void displasubject()

{

Console.WriteLine("Subject=:" + sub);

}

}

public class Marks: Subject

{

int marks;

public Marks( int m)

{

marks = m;

}

public void displaymarks()

{

Console.WriteLine("Marks:=" + marks);

}

}

class Program

{

static void Main(string[] args)

{

Marks m1 = new Marks(50);

m1.Displaystudent();

m1.displasubject();

m1.displaymarks();

}

}

}

**Output**

Name:-Shreyas Tamboli

Subject=:C++

Marks:=50

**3.Hirarchical Inheritance**

using System;

namespace hirarchical

{

public class Emp

{

string name;

public void Disname()

{

name = "Shreyas";

Console.WriteLine("Name:=" +name);

}

}

public class Dept : Emp

{

public void disDept()

{

Console.WriteLine("HR");

}

}

public class Salary : Emp

{

int sal= 15000;

public void saldis()

{

Console.WriteLine("Salary=" + sal);

}

}

class Program

{

static void Main(string[] args)

{

Salary s = new Salary();

Dept d = new Dept();

s.Disname();

s.saldis();

d.disDept();

}

}

}

**Output**

Name:=Shreyas

Salary=15000

HR