Practical 12

Aim: Illustrate reflection in C#

#PROGRAM

```
using System;
using System.Reflection;
static class ReflectionTest
{
   public static int Height;
   public static int Width;
   public static int Weight;
   public static string Name;

   public static void Write()
   {
      Type type = typeof(ReflectionTest);
      FieldInfo[] fields = type.GetFields();
      foreach (var field in fields)
      {
         string name = field.Name;
         object temp = field.GetValue(null);
         if (temp is int)
         {
            int value = (int)temp;
            Console.Write(name);
            Console.Write(" (int) = ");
            Console.WriteLine(value);
         }
         else if (temp is string)
         {
            string value = temp as string;
            Console.Write(name);
            Console.Write(" (string) = ");
            Console.WriteLine(value);
         }
      }
   }
}

class Program
{
   static void Main()
   {
```

```
        ReflectionTest.Height = 100;
        ReflectionTest.Width = 50;
        ReflectionTest.Weight = 300;
        ReflectionTest.Name = "CP14";
        ReflectionTest.Write();
    }
}
```

#OUTPUT