

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;

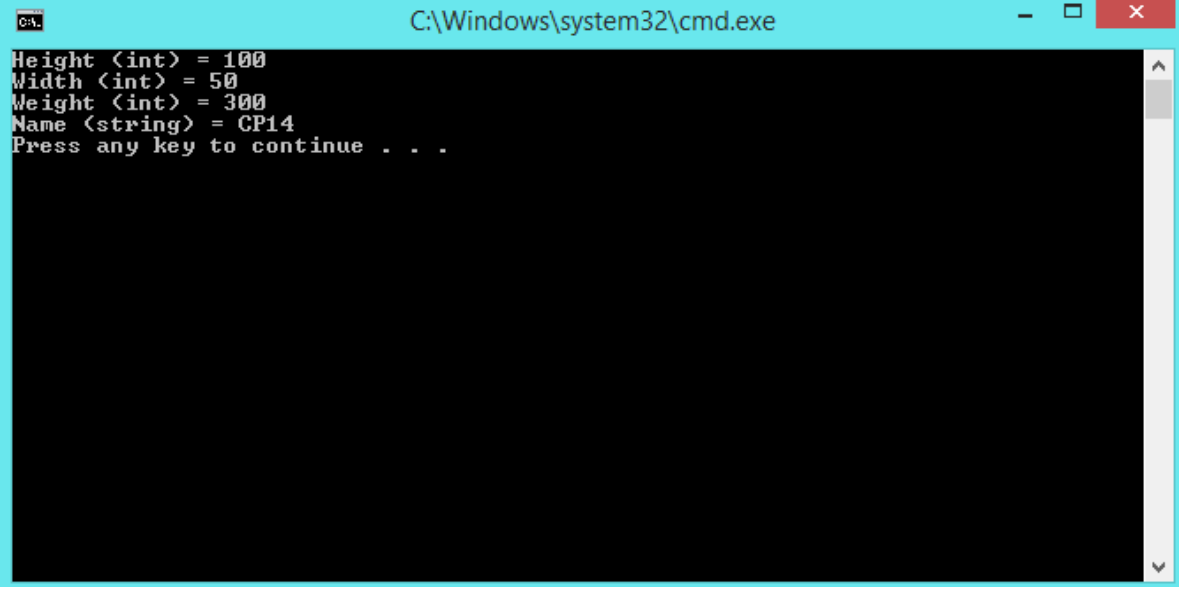
    public static void Write()
    {
        Type type = typeof(ReflectionTest);
        FieldInfo[] fields = type.GetFields();
        foreach (var field in fields)
        {
            string name = field.Name;
            object temp = field.GetValue(null);
            if (temp is int)
            {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



A screenshot of a Windows command prompt window. The title bar is light blue and contains the text "C:\Windows\system32\cmd.exe" along with standard window control buttons (minimize, maximize, close). The command prompt area has a black background with white text. The output of the program is as follows:

```
Height <int> = 100  
Width <int> = 50  
Weight <int> = 300  
Name <string> = CP14  
Press any key to continue . . .
```