Aim: Design Applications using Classes and Objects

a) Write a program to declare a class "staff" having data members as name and post.accept this data 5 staffs and display names of staff who are HOD.

SOURCE CODE:

```
using System;
using System.Collections.Generic;
using System.Ling;
using System.Text;
namespace P2Staff
  class staff
     string name, post;
     public void getdata()
       Console.Write("Enter name and post:");
       name = Console.ReadLine();
       post = Console.ReadLine();
     public void display()
       Console.WriteLine(name + "\t\t" + post);
     public string getPost()
       return post;
  }
  class Program
     static void Main(string[] args)
       staff[] objStaff = new staff[5];
       int i;
       for (i = 0; i < 5; i++)
          objStaff[i] = new staff();
          objStaff[i].getdata();
       Console.WriteLine("Name \t\t Post");
```

```
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```

```
for (i = 0; i < 5; i++)
{
        if (objStaff[i].getPost() == "HOD" || objStaff[i].getPost() == "hod")
            objStaff[i].display();
        }
        Console.ReadLine();
    }
}</pre>
```

OUTPUT:

```
file://c:/users/admin1/documents/visual studio 2010/Projects/P2Staff/P2Staff/bin/Debug/P2Staff.EXE

Enter name and post:narender
student
Enter name and post:shivkumar goel
hod
Enter name and post:mona deskmukh
exam
Enter name and post:vaishali ghaty
class teacher
Enter name and post:ameya parkar
mentor
Name
Post
shivkumar goel
hod
```

b) <u>Define a class "salary" which will contain member variables Basic, TA, DA, HRA. Write a program using Constructor with default values for DA and HRA and calculate the salary of the employee.</u>

SOURCE CODE:

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;

namespace P2Salary
{
    class salary{
    float bsal, hra, da, ta;
    float gsal;
    public void read()
    {
        Console.WriteLine("Enter the Base Salary");
```

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```
bsal = float.Parse(Console.ReadLine());
  }
  public float sal()
  hra=20*bsal/100;
  da=10*bsal/100;
  ta=15*bsal/100;
  gsal=bsal+da+hra+ta;
  return gsal;
  class Program
    static void Main(string[] args)
       salary s = new salary();
       s.read();
      Console.WriteLine("The gross salary is {0}", s.sal());
       Console.ReadLine();
    }
}
```

OUTPUT:

```
file:///c:/users/admin1/documents/visual studio 2010/Projects/P2Salary/P2Salary/bin/Debug/P2Salary.EXE

Enter the Base Salary

105.0

The gross salary is 152.25
```

CONCLUSION:

From this practical, I have learned about object oriented programming concepts in c#.