

Deadline – Wednesday, October 7, 2020

Create class library “HRMSLib” and write following classes

1. Write class Date.cs in HRMSLib project with following members:

int day; int month; int year;

Provide following functionality:

Default constructor

Parameterized constructor

Properties: Day (1 -31 allowed also consider leap year),

Month (1 -12 allowed) and

Year (Consider only 20th & 21st century)

string ToString(); override method to return data of object in string format dd/MM/yyyy.

Also provide a static member function that returns difference between two date objects in number of years.

git commit –m “assignment 4.1 completed”

2. Write a class Person.cs in HRMSLib project with following members:

string _name; bool _gender; Date _birth;

string _address;

Provide following functionality:

Default constructor

Parameterized constructor

Properties: Name, Gender, Birth, Address and Age (Read Only)

string ToString(); override method to return data of object in string format.

Hint: Class will contain Date object for birth and Age will be calculated using static method in Date class.

git commit –m “assignment 4.2 completed”

3. Write a enum EmployeeTypes.cs in HRMSLib project with following members:

Trainee, Permanent, Temporary

git commit –m “assignment 4.3 completed”

4. Write a class Employee.cs in HRMSLib project with following members:

int _id; (Auto Generated)

double _salary; double _hra (40% of salary); double _da (10% of salary);

string _designation; enum EmployeeType _empType;

Provide following functionality:

Default constructor

Parameterized constructor

Properties: Id, Salary, Designation, EmployeeType and NetSalary (Read Only & virtual)

string ToString(); override method to return data of object in string format.

Hint: class must be inherited from Person class. Use static count for auto generating id.

Netsalary = Salary + HRA + DA

git commit –m “assignment 4.4 completed”

5. Write a class Salesperson in HRMSLib project with following members:

double _commision ;

Provide following functionality:

Default constructor

Parameterized constructor

Properties: Commision

string ToString(); override method to return data of object in string format.

Hint: class must be inherited from Employee class so that designation is fixed i.e. "Salesperson".

Netsalary = Salary + HRA + DA + Commision

git commit -m "assignment 4.5 completed"

6. Write a class WageEmp (Contract basis employee) in HRMSLib project with following members:

int hours; int rate; (Per hour basis)

Provide following functionality:

Default constructor

Parameterized constructor

Properties: Hours, Rate

string ToString(); override method to return data of object in string format.

Hint: class must be inherited from Employee class so that designation is fixed i.e. "Wage".

Netsalary = Hours * Rate

git commit -m "assignment 4.6 completed"

7. Create a console application and use the library "HRMSLib" as private assembly. Console application must be a menu drive program providing facilities of Accepting/Printing Employee details

git commit -m "assignment 4.7 completed"