**24\_NTU\_CS\_FL\_1197:**

**Scenario 1:**

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace \_24\_NTU\_CS\_FL\_1197\_\_\_Library\_Managment\_System

{

class Book

{

public string Name;

public string Writer;

public string BookID;

public double Cost;

void ShowDetails()

{

Console.WriteLine($"Title: {Name}\tAuthor: {Writer}\tBook ID: {BookID}\tPrice: {Cost} PKR");

}

void CalculateDiscount(double percent)

{

double newPrice = Cost - (Cost \* (percent / 100));

Console.WriteLine($"\nAfter applying a {percent}% discount, the final price of the book is: {newPrice} PKR");

}

static void Main(string[] args)

{

Console.WriteLine("====================================");

Console.WriteLine(" Library Management System ");

Console.WriteLine("====================================");

Console.WriteLine("\nBook Details:");

Console.WriteLine("------------------------------------------------");

Book book1 = new Book();

book1.Name = "Code Mastery";

book1.Writer = "Ali Raza";

book1.BookID = "B987";

book1.Cost = 4500;

book1.ShowDetails();

book1.CalculateDiscount(25);

}

}

}

**Scenario 2:**

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace Scanerio\_2

{

class Employee

{

public int ID;

public string FullName;

public string Dept;

public double Salary;

public Employee(int id, string fullName, string dept, double salary)

{

ID = id;

FullName = fullName;

Dept = dept;

Salary = salary;

}

void ShowDetails()

{

Console.WriteLine($"{ID,-10} | {FullName,-15} | {Dept,-10} | {Salary} PKR");

}

void RaiseSalary(double amount)

{

Salary += amount;

Console.WriteLine($"\nUpdated Salary after increment: {Salary} PKR");

}

static void Main(string[] args)

{

Console.WriteLine("====================================");

Console.WriteLine(" Employee Management System ");

Console.WriteLine("====================================\n");

Console.WriteLine("Employee Details:");

Console.WriteLine("------------------------------------------------------------");

Console.WriteLine("ID | Name | Department | Salary");

Console.WriteLine("------------------------------------------------------------");

Employee emp1 = new Employee(1001, "Ahmed Khan", "IT", 55000);

emp1.ShowDetails();

emp1.RaiseSalary(7500);

}

}

}