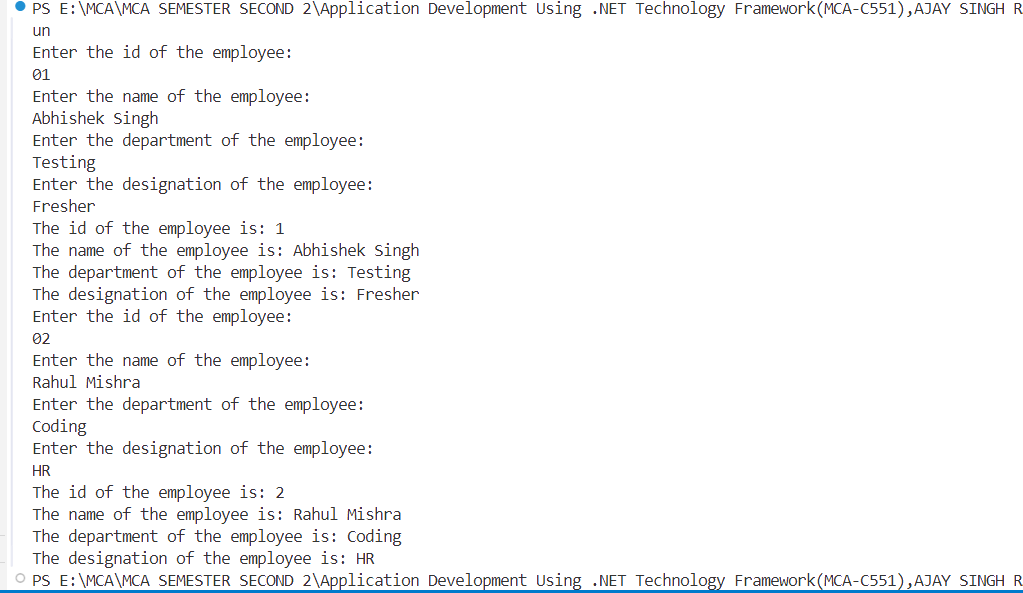
**Program 11: "XYZ Ltd" is a US based IT company with 1000 employees, out of which 10 employees are based on India and working in different departments. Out of 10 employees, few are managers who are leading a team also. Write a program to create a class "Employee" that has data members as follows:**

|  |  |
| --- | --- |
| **Empid** | **Employee ID** |
| **Empname** | **Employee Name** |
| **dept** | **Department Name ( Coding / Testing/ Developer** |
| **Desg** | **Designation (Fresher /HR/ Team / Leader / Manger)** |
| **Input()** | **Take input all employee records** |
| **Display()** | **Display those Employee Id and Name who is in Developer team and designation are manager.** |

**Code:**

|  |
| --- |
| // Employee11.cs file  using System;  using System.Collections.Generic;  using System.Linq;  using System.Threading.Tasks;  namespace Second\_Practical  {  public class Employee11  {  private int id = 0;  private string name = "";  private string department = "";  private string designation = "";  public void Input(){  Console.WriteLine("Enter the id of the employee: ");  id = Convert.ToInt32(Console.ReadLine());  Console.WriteLine("Enter the name of the employee: ");  name = Console.ReadLine();  Console.WriteLine("Enter the department of the employee: ");  department = Console.ReadLine();  Console.WriteLine("Enter the designation of the employee: ");  designation = Console.ReadLine();  }  public void Display(){  Console.WriteLine("The id of the employee is: " + id);  Console.WriteLine("The name of the employee is: " + name);  Console.WriteLine("The department of the employee is: " + department);  Console.WriteLine("The designation of the employee is: " + designation);  }    }  }  //Program.cs file  using System;  using Second\_Practical;  public class Program  {  public static void Main(string[] args)  {  Employee11 emp = new Employee11();  emp.Input();  emp.Display();  Employee11 emp2 = new Employee11();  emp2.Input();  emp2.Display();    }  } |

**Output:**

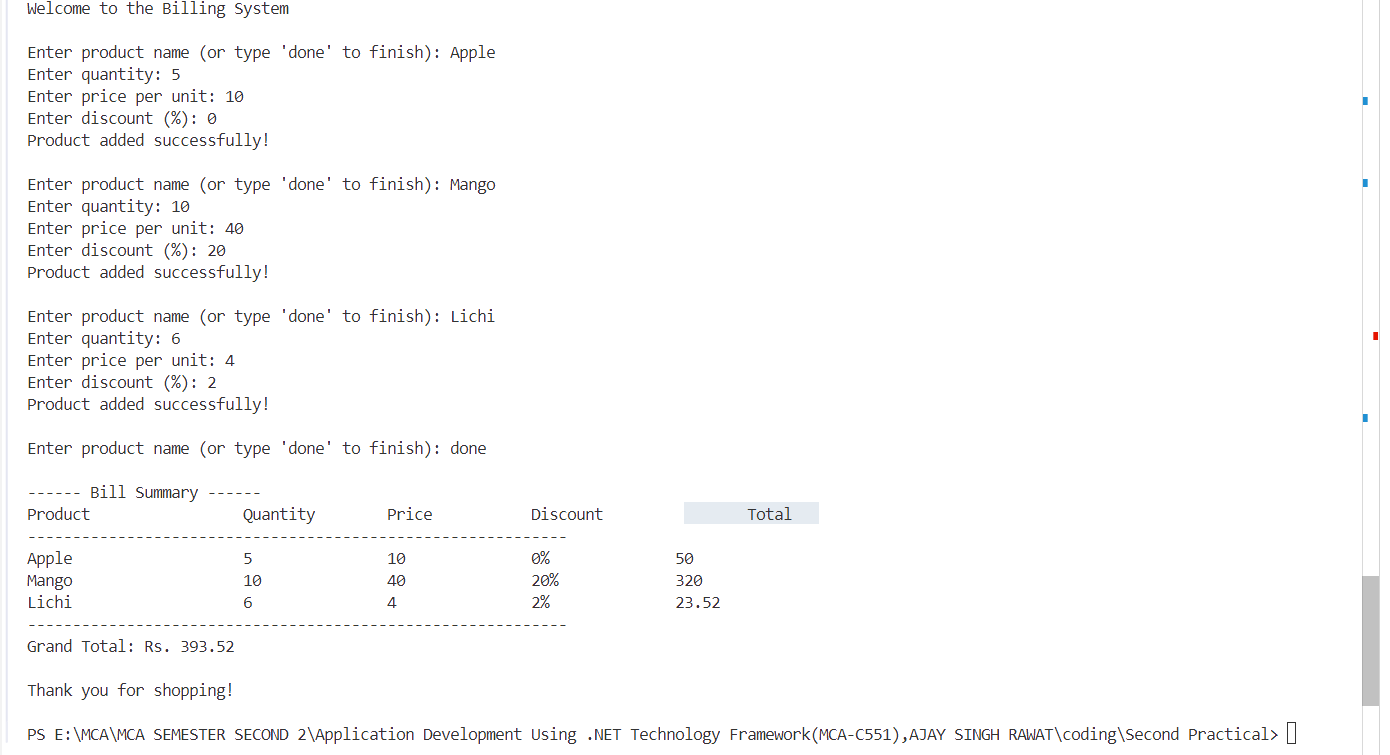
****

**Program 12: A shopkeeper in Delhi started facing a lot of problems when more clients began coming in. Until now, the shopkeeper used to manually issue bills, but now he needed software. Create a program in such a way that the shopkeeper can give the client a bill, which includes the name of all products, quantity, price, discount (if applicable), and the total bill generated.**

**Code:**

|  |
| --- |
| // Progeram.cs file  using System;  using System.Collections.Generic;  class Program  {  class Product  {  public string Name { get; set; }  public int Quantity { get; set; }  public double Price { get; set; }  public double Discount { get; set; } // Discount in percentage    public double GetTotal()  {  double total = Quantity \* Price;  double discountAmount = total \* (Discount / 100);  return total - discountAmount;  }  }  static void Main()  {  List<Product> products = new List<Product>();  Console.WriteLine("Welcome to the Billing System\n");    while (true)  {  Product p = new Product();  Console.Write("Enter product name (or type 'done' to finish): ");  p.Name = Console.ReadLine();  if (p.Name.ToLower() == "done") break;  Console.Write("Enter quantity: ");  p.Quantity = Convert.ToInt32(Console.ReadLine());    Console.Write("Enter price per unit: ");  p.Price = Convert.ToDouble(Console.ReadLine());    Console.Write("Enter discount (%): ");  p.Discount = Convert.ToDouble(Console.ReadLine());    products.Add(p);  Console.WriteLine("Product added successfully!\n");  }  Console.WriteLine("\n------ Bill Summary ------");  double grandTotal = 0;    Console.WriteLine( "Product\t\t\tQuantity\tPrice\t\tDiscount\t\tTotal");  Console.WriteLine("------------------------------------------------------------");    foreach (var item in products)  {  double total = item.GetTotal();  grandTotal += total;  Console.WriteLine(item.Name+"\t\t\t"+item.Quantity+"\t\t"+ item.Price+"\t\t"+item.Discount + "%"+"\t\t"+total);  }  Console.WriteLine("------------------------------------------------------------");  Console.WriteLine("Grand Total: Rs. " + grandTotal);  Console.WriteLine("\nThank you for shopping!\n");  }  } |

**Output:**

****

**Program 13: Write a program to take any string from user and count the total number of 'a' character (lower as well as upper) in a string.**

**Code:**

|  |
| --- |
|  |

**Output:**

**Program 14: Write a program to take any string from user and count total number of words in a string without using any inbuilt function.**

**Code:**

|  |
| --- |
|  |

**Output:**

**Program 15: Write a program to take any string from user and check how many words are palindrome in a string without using inbuilt function.**

**Code:**

|  |
| --- |
|  |

**Output:**

**Program 16: Write a program to take any string from user and convert each character into upper case. Don't use the inbuilt function.**

Example: str "Goal is goal" Result GOAL IS GOAL

**Code:**

|  |
| --- |
|  |

**Output:**

**Program 17: Write a program to take any string from user and count how many words in a string start with character 't'. Don't use the inbuilt function.**

**Code:**

|  |
| --- |
|  |

**Output:**

**Program 18: Take size of an array and array elements from the user. Write a program to count the occurrence of each element of an array and display.**

**Code:**

|  |
| --- |
|  |

**Output:**

**Program 19: Write a program to take any string from user and count the total number of characters in each word. Don't use the inbuilt function.**

**Code:**

|  |
| --- |
|  |

**Output:**

**Program 20: Create a structure named as "Faculty" that has date members as follows:**

* **Ecode: Faculty Employee Code**
* **Fname: Faculty Name**
* **Fexp: Faculty Experience**
* **Esalary: Faculty Salary**
* **Edept: Faculty Department Name**
* **Read (): Input all details of a faculty**

**Bonus (): Increment salary by 10%, if faculty teaching experience more than 2 years otherwise increment by 5%.**

**Show (): Display all details of a faculty after salary increment.**

**Code:**

|  |
| --- |
|  |

**Output:**