A.Y. 2022-2023

Console applications: Object Oriented Programming, StringBuilder And CommandLine Argument

1. Write a program to create a Class named ATM having following methods

which performs ATM transaction:

Balance_check():- To Check the balance of Current Account

Debit():- To Withdraw money into Current Account

Credit() :- To add money into Current Account

Get info():- To see information of Account Holder

```
INPUT:-
```

```
using System;
using System.Collections.Generic;
using System.Ling;
using System.Text;
using System. Threading. Tasks;
namespace Practical_4
    internal class Practical_4_1_
    static void Main(string[] args)
        Console.WriteLine("Name :AMIT GOSWAMI");
        Console.WriteLine("Enrollment No. : 21012021003");
        string name = "AMIT GOSWAMI";
        int ACC_NO = 12345;
        int password = 123;
        int Balance = 200000;
        Console.WriteLine("Please Enter ACCOUNT information
:");
        Console.WriteLine("Please Enter Account Number :");
        int acc_no = Convert.ToInt32(Console.ReadLine());
        Console.WriteLine("Please Enter Password :");
        int pass = Convert.ToInt32(Console.ReadLine());
        if (ACC_NO != acc_no || password != pass)
            Console.WriteLine("Please Enter Correct
Information .");
        }
```

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```
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```

```
else
            Console.WriteLine("Welcome " + name);
        label:
            Console.WriteLine("Please Ener your choice : \n
1. Balance Check \n 2. Credit \n 3. Debit \n 4. Get
Information ");
            int a = Convert.ToInt32(Console.ReadLine());
            switch (a)
            {
                case 1:
                    Balance_check(Balance);
                    break;
                case 2:
                    Balance = Credit(Balance);
                    break;
                case 3:
                    Balance = Debit(Balance);
                    break;
                case 4:
                    Get_info(name, acc_no, Balance);
                    break;
                default:
                    Console.WriteLine("Please Enter Correct
Choice .");
                    break;
            Console.WriteLine("Do You Want to Continue :\n
1. Yes \n 2. No");
            int b = Convert.ToInt32(Console.ReadLine());
            if (b == 1)
            {
                goto label;
            }
            else
                Console.WriteLine("You Have completed your
operations .");
            }
    }
    public static void Balance_check(int Balance)
        Console.WriteLine("Balance is :" + Balance);
    public static int Credit(int Balance)
        Console.WriteLine("Enter the Value to Credit :");
        int n = Convert.ToInt32(Console.ReadLine());
```

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```
Balance += n;
        Console.WriteLine("Now Your Balance is : " +
Balance);
        return Balance;
    }
    public static int Debit(int Balance)
        Console.WriteLine("Enter the Value to Debit :");
        int n = Convert.ToInt32(Console.ReadLine());
        Balance -= n;
        Console.WriteLine("Now Your Balance is : " +
Balance);
        return Balance;
    public static void Get_info(string name, int acc_no,
int Balance)
    {
        Console.WriteLine("Your Account Information : \n
Name : " + name + " \nAccount No. : " + acc_no + "\n
Balance: " + Balance);
    }
    }
}
OUTPUT:-
Name : AMIT GOSWAMI
```

```
Enrollment No. : 21012021003
Please Enter ACCOUNT information :
Please Enter Account Number :
12345
Please Enter Password :
123
Welcome AMIT GOSWAMI
Please Ener your choice :
1. Balance Check
2. Credit
Debit
4. Get Information
Enter the Value to Credit :
23000
Now Your Balance is : 223000
Do You Want to Continue :
1. Yes
2. No
```

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2. Write a program to find frequency of each element in an array using command Line Arguments

INPUT :-

```
using System;
using System.Collections.Generic;
using System.Ling;
using System.Text;
using System. Threading. Tasks;
using static System.Net.Mime.MediaTypeNames;
namespace Practical_4
    internal class Practical_4_2_
    {
        static void Main(string[] args)
        {
            Console.WriteLine("21012021003_AMIT GOSWAMI");
            int i, count, j;
            int n = args.Length;
            int[] a = new int[100];
            int[] b = new int[100];
            Console.WriteLine("Enter the value in the
array");
            for (i = 0; i < 10; i++)
                a[i] = Convert.ToInt32(Console.ReadLine());
                b[i] = -1;
            for (i = 0; i < 10; i++)
                count = 1;
                for (j = i + 1; j < 10; j++)
                    if (a[i] == a[j])
                         count++;
                        b[j] = 0;
                     }
                }
                if (b[i] != 0)
                    b[i] = count;
                }
```

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```
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                                                        Practical-4
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             Console.WriteLine("");
             for (i = 0; i < 10; i++)
             {
                 if (b[i] != 0)
                     Console.WriteLine(a[i] + " Occur " +
b[i] + " Times ");
             Console.ReadKey();
        }
    }
}
OUTPUT:-
21012021003_AMIT GOSWAMI
Enter the value in the array
2
3
4
5
6
7
2
3
9
3
2 Occur 2 Times
3 Occur 3 Times
4 Occur 1 Times
5 Occur 1 Times
6 Occur 1 Times
7 Occur 1 Times
9 Occur 1 Times
```

3. Write a program to explain StringBuilder Class. [Note: Use Append(), AppendFormat(), Insert(), Remove(), Replace() Methods.]

INPUT:-

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

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```
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```

Practical-4

```
using System. Threading. Tasks;
namespace Practical_4
    internal class Practical 4 3
        static void Main(string[] args)
        {
            Console.WriteLine("21012021003_AMIT GOSWAMI");
            string a = "AMIT GOSWAMI";
            string[] b = new string[3] { "GUNI", "UVPCE",
"CE/IT" };
            StringBuilder bs = new StringBuilder();
            StringBuilder sb = new StringBuilder(a);
            a = Convert.ToString(sb.Append("AMIT"));
            Console.WriteLine(a);
            int count = 0;
            foreach (string v in b)
                bs.AppendFormat("you have viisited {0}
({1}) \n", v, count);
                count++;
            Console.WriteLine(bs);
            a = Convert.ToString(sb.Insert(4, "GOSWAMI"));
            Console.WriteLine(a);
            a = Convert.ToString(sb.Remove(3,1));
Console.WriteLine(a);
            a = Convert.ToString(sb.Replace("AMIT GOSWAMI",
"SUMIT GOSWAMI"));
            Console.WriteLine(a);
            Console.ReadLine();
        }
    }
}
OUTPUT:-
21012021003_AMIT GOSWAMI
AMIT GOSWAMIAMIT
you have viisited GUNI (0)
you have viisited UVPCE (1)
vou have viisited CE/IT (2)
AMITGOSWAMI GOSWAMIAMIT
AMIGOSWAMI GOSWAMIAMIT
AMIGOSWAMI GOSWAMIAMIT
```

Name: AMIT.G