Practical-4

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

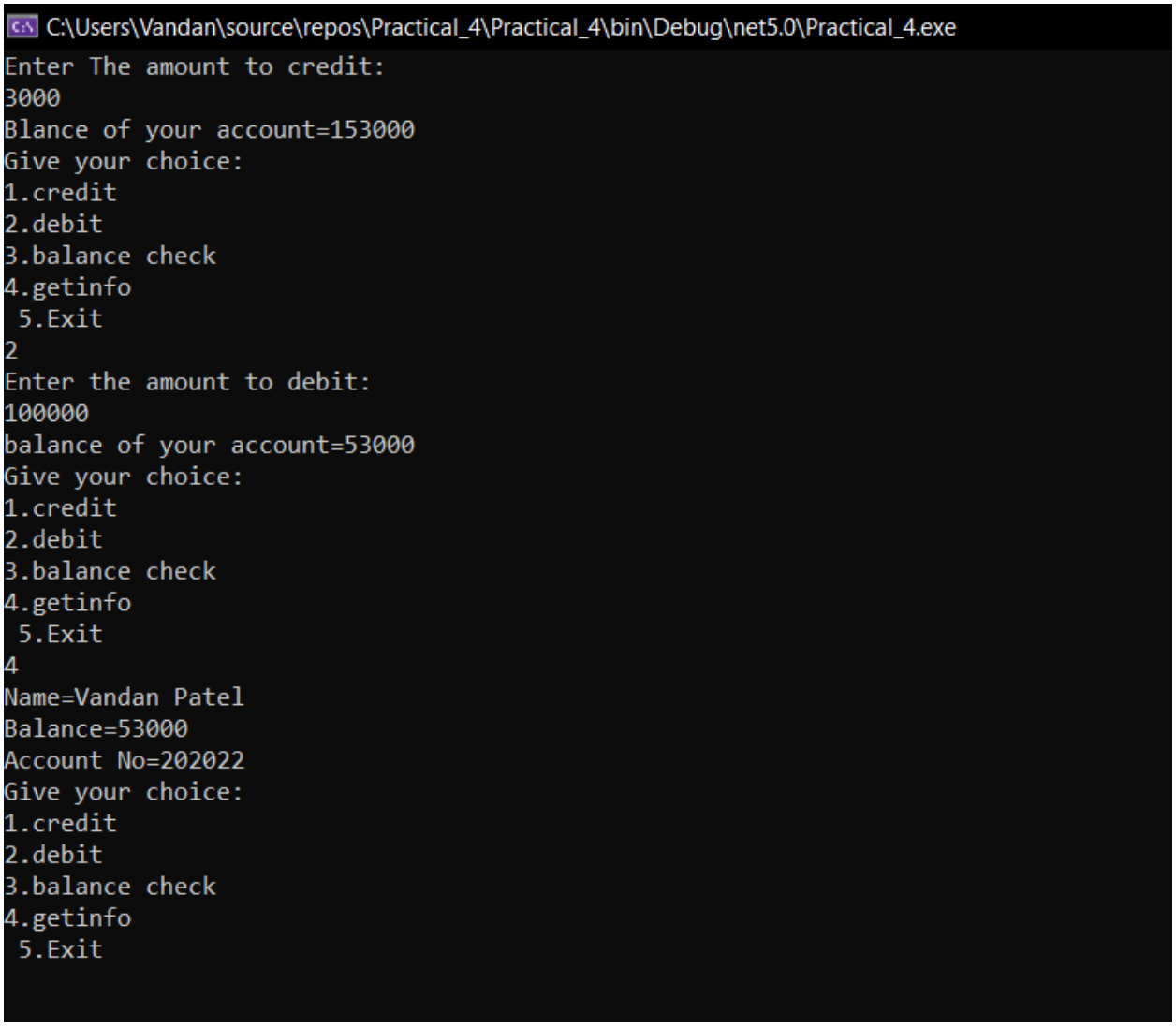
Code:

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
namespace Practical_4
{
    class ATM
    {
        public int credit(int balance)
        {
            int c;
            Console.WriteLine("Enter The amount to credit:");
            c = Convert.ToInt32(Console.ReadLine());
            balance = balance + c;
            Console.WriteLine("Blance of your account=" + balance);
            return balance;
        }
        public int debit(int balance)
        {
            int c;
            Console.WriteLine("Enter the amount to debit:");
            c = Convert.ToInt32(Console.ReadLine());
            balance = balance - c;
```

```
            Console.WriteLine("balance of your account=" + balance);
            return balance;
        }
        public void balance_check(int balance)
        {
            Console.WriteLine("Your balance=" + balance);
        }
        public void get_info(string Name, int balance, int Acc_no)
        {
            Console.WriteLine("Name=" + Name);
            Console.WriteLine("Balance=" + balance);
            Console.WriteLine("Account No=" + Acc_no);
        }
    }
    class Program
    {
        public static void Main(string[] args)
        {
            Console.WriteLine("2001201110_Patel Vandan\n");
            int a, Ano, p, Acc_no = 101010, pswd = 123456, balance =
           150000;
            String Name = "Keval";
            Console.WriteLine("Enter Account No:");
            Ano = Convert.ToInt32(Console.ReadLine());
            Console.WriteLine("Enter Password:");
            p = Convert.ToInt32(Console.ReadLine());
            if (Acc_no == Ano && pswd == p)
            {
                Console.WriteLine("WElcome");
            l:
                ATM A = new ATM();
                Console.WriteLine("Give your choice:");
                Console.WriteLine("1.credit\n2.debit\n3.balance
check\n4.getinfo");

                a = Convert.ToInt32(Console.ReadLine());
                switch (a)
                {
                    case 1:
                        balance = A.credit(balance);
                        goto l;
                    case 2:
                        balance = A.debit(balance);
                        goto l;
                    case 3:
                        A.balance_check(balance);
```

```
                    goto l;
                case 4:
                    A.get_info(Name, balance, Acc_no);
                    goto l;
                default:
                    break;
            }
        }
    }
  }
}
```

Output:



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

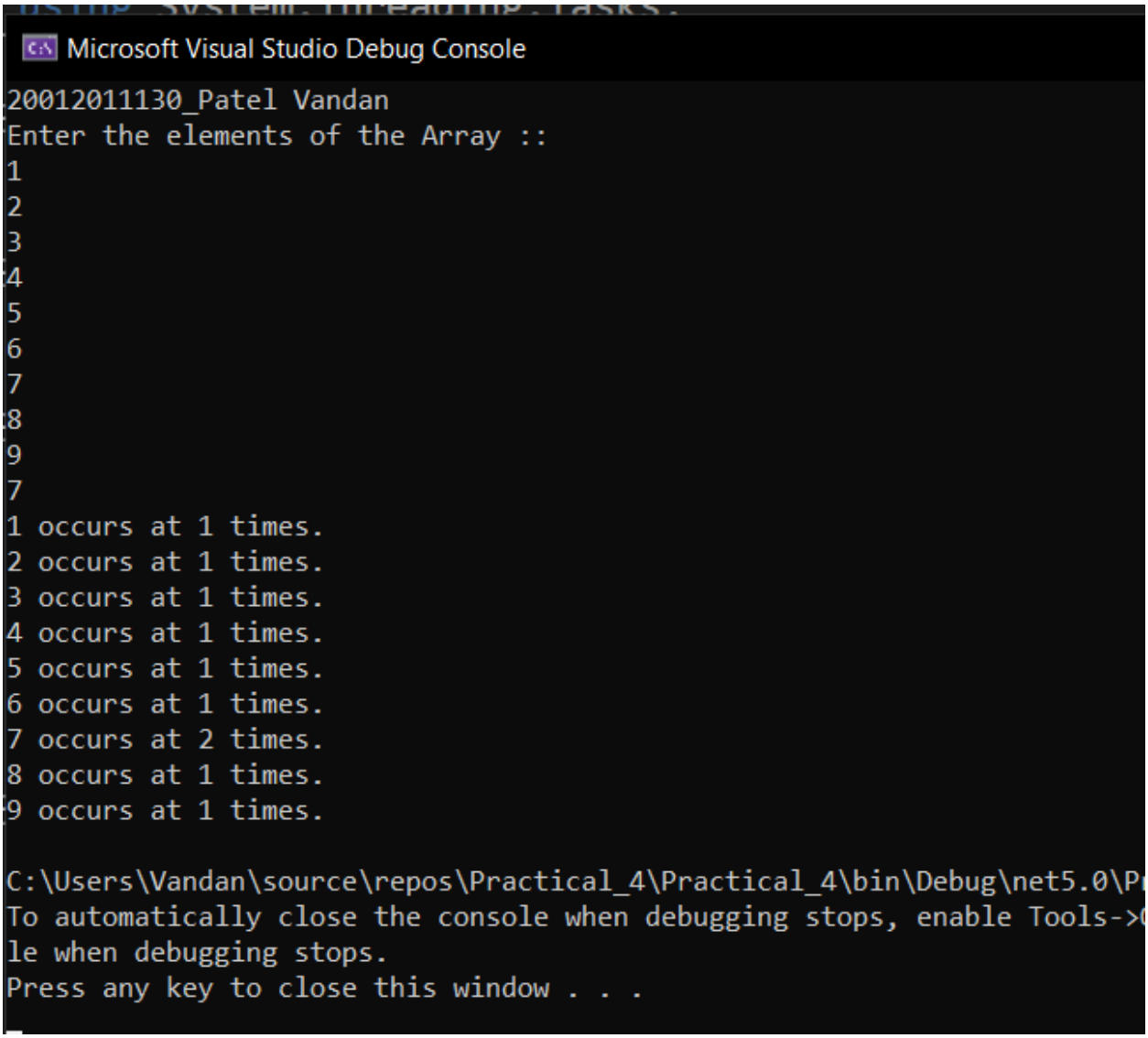
Code:

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

```
using System.Text;
using System.Threading.Tasks;

namespace Practical_4
{
    class second
    {
        static void Main(string[] args)
        {
            int i, j, count;

            int[] b = new int[10];
            Console.WriteLine("20012011130_Patel Vandan");
            Console.WriteLine("Enter the elements of the Array :: ");
            for (i = 0; i < 10; i++)
            {
                Console.WriteLine(args[i]);
                b[i] = -1;
            }
            for (i = 0; i < 10; i++)
            {
                count = 1;
                for (j = i + 1; j < 10; j++)
                {
                    if (args[i] == args[j])
                    {
                        count++;
                        b[j] = 0;
                    }
                }
                if (b[i] != 0)
                {
                    b[i] = count;
                }
            }

            for (i = 0; i < 10; i++)
            {
                if (b[i] != 0)
                {
                    Console.WriteLine("{0} occurs at {1} times.",
args[i], b[i]);
                }
            }
            Console.ReadKey();
        }
```

```
    }
}
```

Output:


Microsoft Visual Studio Debug Console
20012011130_Patel Vandan
Enter the elements of the Array ::
1
2
3
4
5
6
7
8
9
7
1 occurs at 1 times.
2 occurs at 1 times.
3 occurs at 1 times.
4 occurs at 1 times.
5 occurs at 1 times.
6 occurs at 1 times.
7 occurs at 2 times.
8 occurs at 1 times.
9 occurs at 1 times.
C:\Users\Vandan\source\repos\Practical_4\Practical_4\bin\Debug\net5.0\P
To automatically close the console when debugging stops, enable Tools->
le when debugging stops.
Press any key to close this window . . .

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

Code:

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

namespace Practical_4
{
    class third
    {
        static void Main(string[] args)
        {
            Console.WriteLine("20012011130_Patel Vandan");
            String v = "Nandan";
            StringBuilder sb = new StringBuilder(v);
            //Replace
            Console.WriteLine("Replace: Nandan");
            sb.Replace("N", "V");
            Console.WriteLine(sb);
            //Append
            Console.WriteLine("Append: ");
            sb.Append(" Patel");
            Console.WriteLine(sb);
            Console.WriteLine("Remove");
            sb.Remove(0, 6);
            Console.WriteLine(sb);
            Console.WriteLine("Insert:");
            sb.Insert(0, "Mr");
            Console.WriteLine(sb);

            //Use appendFormat
            String[] a = { "GUNI", "UVPCE", "CE", "IT" };
            int counter = 0;
            StringBuilder b = new StringBuilder();

            foreach (String value in a)
            {
                b.AppendFormat("You have visited {0} {1}\n",
counter++, value);
```

```
            }
            Console.WriteLine(b);



            Console.ReadKey();
        }
    }
}
```

Output: