Program 8

8. Write a program to perform string operations using ArrayList. Write functions for the following a. Append - add at end b. Insert – add at particular index c. Search d. List all string starts with given letter

Program code:

```java
import java.util.*;
public class ArrayL
{
    ArrayList<String> list=new ArrayList<String>(); //Creating
    arraylist
    public void arraydisplay()
    {
        list.add("CSE");//Adding object in arraylist
        list.add("ISE");
        list.add("ME");
        System.out.println("ArrayList element are");
        System.out.println(list);
        System.out.println("");
    }

    public void appendatend()
    {
        System.out.println("Enter the element to append at end");
        Scanner num=new Scanner(System.in);
        String ele=num.next();
        list.add(ele);
        System.out.println(list);
        System.out.println("");
    }

    public void insertatpos()
    {
        System.out.println("Enter the position and element to
        insert");
        Scanner num=new Scanner(System.in);
        int posind=num.nextInt();
        String ele=num.next();
        list.add(posind,ele);
        System.out.println(list);
        System.out.println("");
    }
```

```java
        public void searchele()
        {
                System.out.println("Enter the Array element to search");
                Scanner scobj=new Scanner(System.in);
                String arele=scobj.next();
                int in=list.indexOf(arele);
        if(in==-1)
        {
                System.out.println("Element not found");
        }
        else
        {
                System.out.println("Element found at "+in);
        }
    }

        void print()
        {
                Scanner nip=new Scanner(System.in);
                System.out.println("Enter the starting character to print
                strings");
                char inputc=nip.next().charAt(0);
                String strc=Character.toString(inputc);
                System.out.println("String starting with character
                "+strc);
                for(int i=0;i<list.size();i++)
                {
                  if(list.get(i).startsWith(strc))
                     {
                            System.out.println(list.get(i));
                     }
                }
        }
        public static void main(String args[])
        {
                ArrayL obj=new ArrayL();
                obj.arraydisplay();
                obj.appendatend();
                obj.insertatpos();
                obj.searchele();
                obj.print();
        }
}
```