Aim:

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m To}$ develop a java console application to perform string operations.

Requiremnets:

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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
```

Algorithm:

Program:

```
/*developed by: Aakash
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package stringcollection;
import java.util.*;
public class StringList {
      public static void main(String[] args) {
             int option;
             int index,i;
             String str1;
             Scanner <u>sc</u>=new Scanner(System.in);
             ArrayList<String> strs;
             strs=new ArrayList<String>();
             while(true)
             {
                   System.out.println("\n\n1. To add an String at the end");
                   System.out.println("2. To insert an String at particular
index");
                   System.out.println("3. To search for a String");
System.out.println("4. To display all the Strings starting
with spcific letter");
                   System.out.println("5. Exit");
                   System.out.print("Enter your choice:");
                   option=sc.nextInt();
                   switch(option)
                   case 1:
                          System.out.print("Enter a String:");
```

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strl=sc.next();
                        strs.add(str1);
                        System.out.println("The given string is added at the
end");
                  case 2:
                        System.out.print("Enter a string:");
                        str1=sc.next();
                        System.out.print("Enter the index:");
                        index=sc.nextInt();
                        strs.add(index,str1);
                        System.out.println("The given string is added at the
given index");
                        break;
                  case 3:
                        System.out.print("Enter a string:");
                        str1=sc.next();
                        index=strs.indexOf(str1);
                        if(index<0)</pre>
                               System.out.println("The given string is not
available in the list");
                        }else
                               System.out.printf("The string %s is found at the
index %d",strl,index);
                        break;
                  case 4:
                        char l:
                        System.out.println("Enter the starting letter: ");
                        l=sc.next().charAt(0);
                        for(i=0;i<strs.size();i++)</pre>
                               str1=strs.get(i);
                               if(l==str1.charAt(0))
                                     System.out.println(str1);
                        break;
                  case 5:
                        System.out.println("Thankyou for using String list
application !!!");
                        break;
                  default:
                        System.out.println("Please enter a valid number !!!");
                  }
                  if(option==5)
                        break;
                  }
            }
      }
}
```

Result: