SKILLING EXERCISE-3

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CLASS DIAGRAM:

naveen

Skilling2
-a : String = "an+deg"
-b : String = "q pz +rt xc"
~get a () : String
~seta (a:String) : void
~getb () : String
~setb (b:String) : void

Skilling2Demo
+main(args : String[ ]) : void
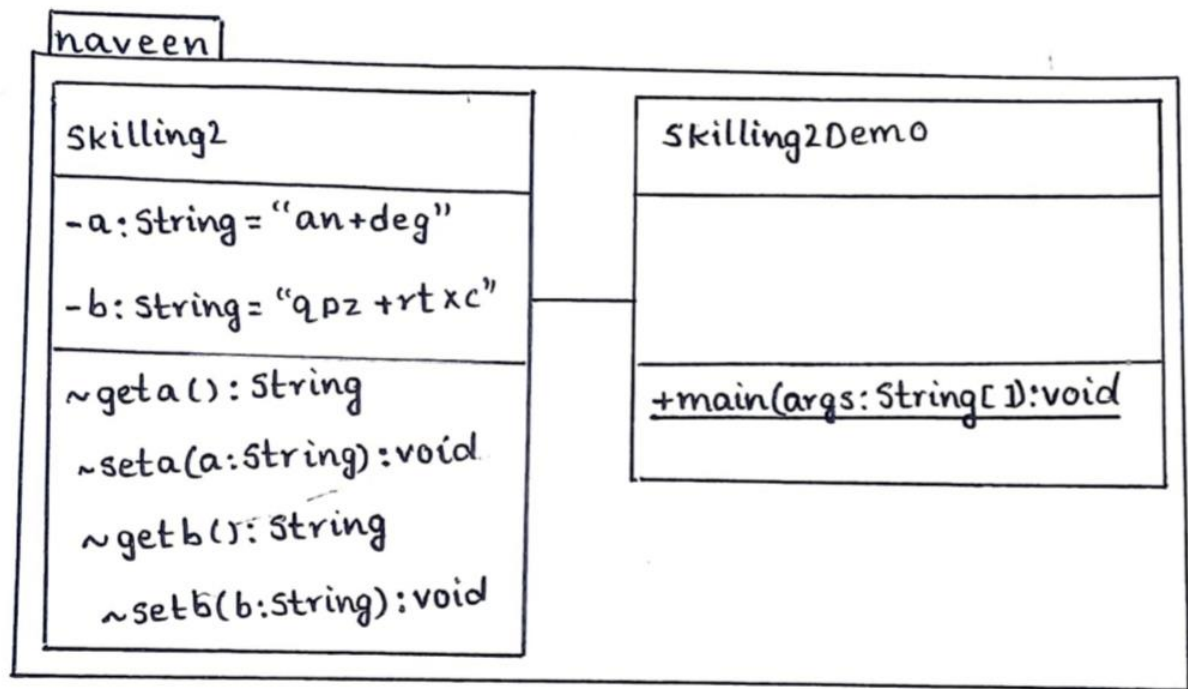
Encapsulation:

The meaning of **Encapsulation**, is to make sure that "sensitive" data is hidden from users. To achieve this, you must:

- declare class variables/attributes as private
- provide public **get** and **set** methods to access and update the value of a private variable

We Know that private variables can only be accessed within the same class. However, it is possible to access them if we provide public **get** and **set** methods.

Get method:

The get method returns the variable value.

Set method:

the set method sets the value

Code:

```java
package naveen;
public class Skilling2 {
 private String a = "an+deg",b="qpz+rtxc";
 String geta()
 {
      return a;
 }
 void seta(String a)
 {
      this.a=a;
 }
 String getb()
 {
      return b;
 }
 void setb(String b)
 {
      this.b=b;
 }
}
package naveen;
import java.util.Scanner;
public class Skilling2Demo {
     public static void main(String[] args) {
          Scanner sc = new Scanner(System.in);
          boolean repeat = true;
          while(repeat)
          {
               System.out.println("1.Bharath biotech
formula\n2.Serum institute\nOthers exit\n");
               switch(sc.nextInt())
               {
               case 1:
                    Skilling2 s = new Skilling2();
                    System.out.print("Bharath biotech formula :
"+s.geta()+"\n");
```
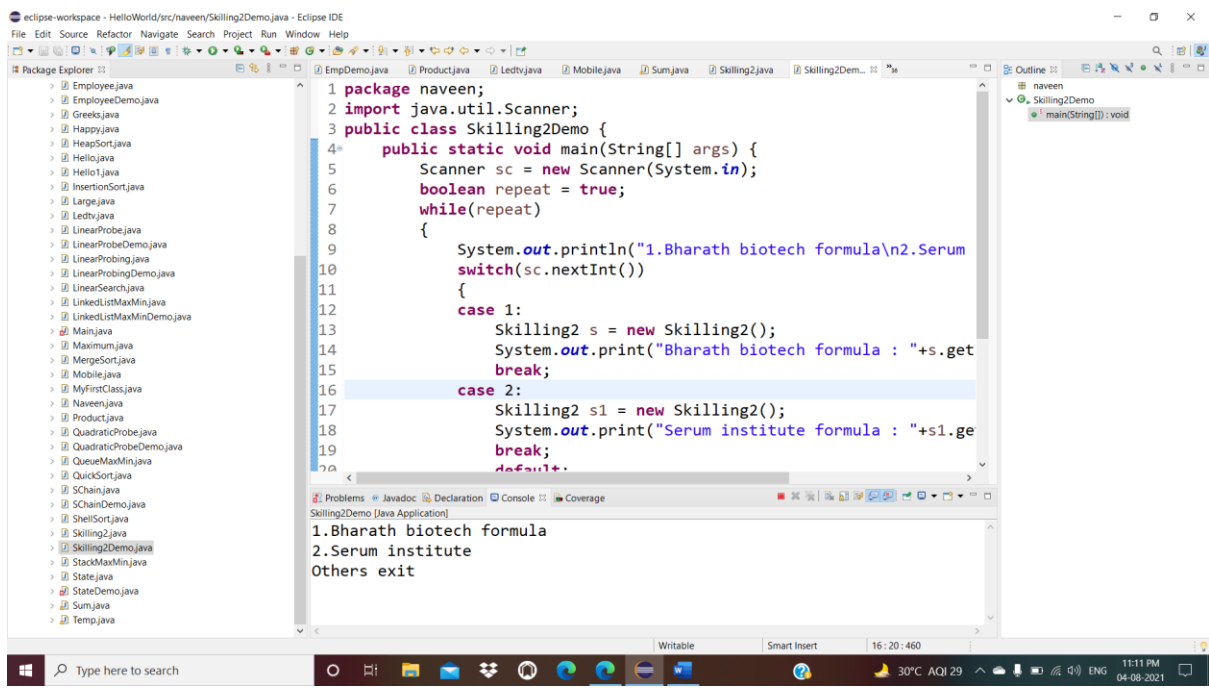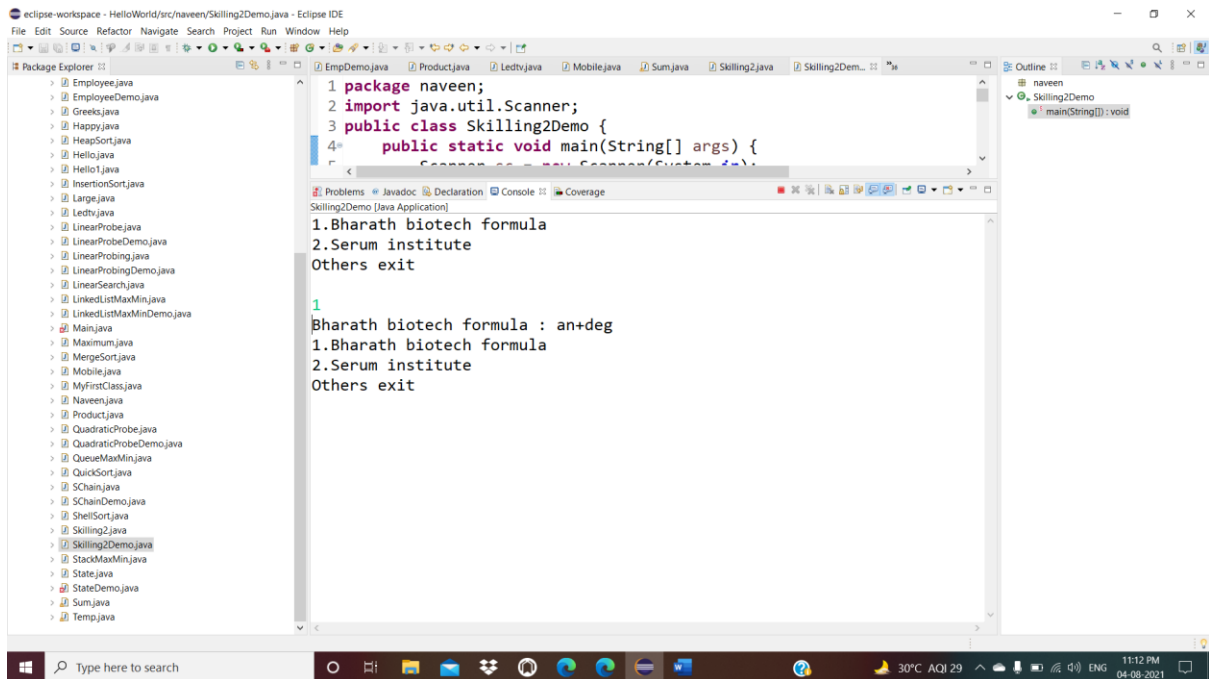
```
                    break;
            case 2:
                    Skilling2 s1 = new Skilling2();
                    System.out.print("Serum institute formula :
"+s1.getb()+"\n");

                    break;
                    default:
                            System.out.println("you enter invalid
number");

                            repeat=false;
                }
            }
        sc.close();
        }

}
```
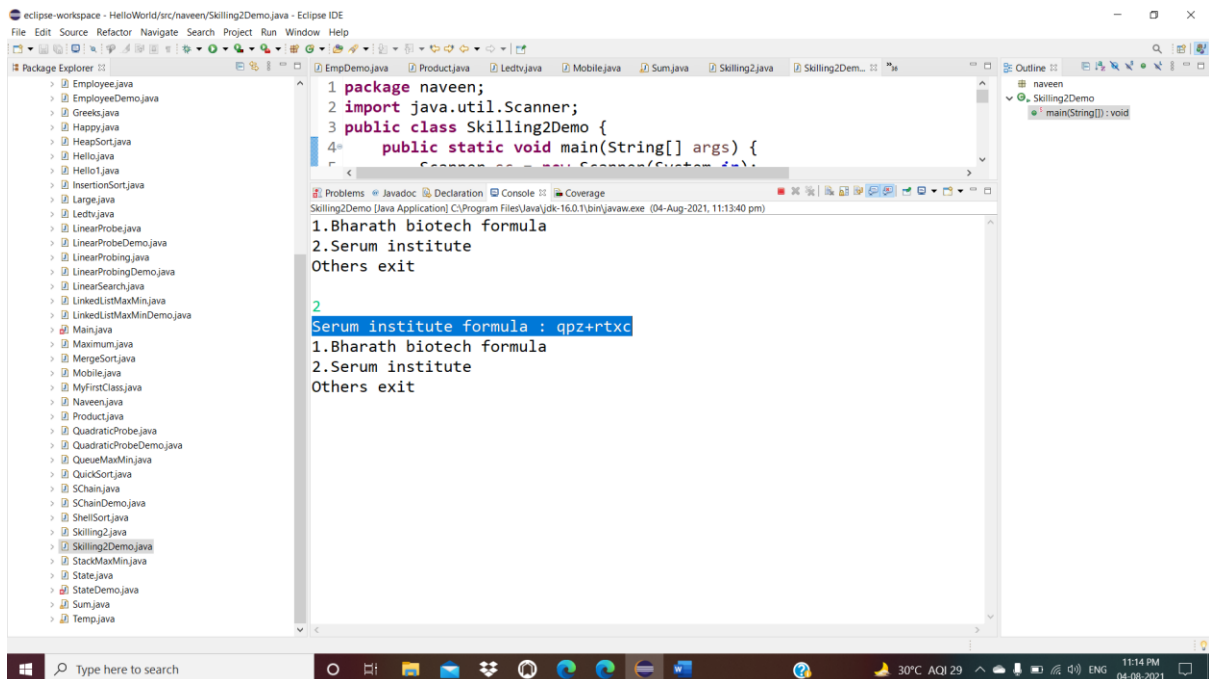
ScreenShots:

Bharath biotech:

Serum institute: