Name :- Shubham Pawar

Course Name :- Java Full Stack Development

Ref. No. SCS/CG/2021/025

Program name :- Tea Making App

1.ComputerWaliCoffee.java file code :-

```java
public class ComputerWaliCoffee implements Tea {

    public void making() {

        System.out.println("Welcome to ComputerWali Coffee making Process");
        System.out.println("Step 1: Take some Water.");
        System.out.println("Step 2: Take some Sugar.");
        System.out.println("Step 3: Take some Milk.");
        System.out.println("Step 4: Take some Computer Special Coffee Powder.");
        System.out.println("Computer Coffee is Ready");
    }

    @Override
    public void benefits() {
        System.out.println("Benefits of Computer Coffee");
        System.out.println("Refreshing mood and good for health");
        System.out.println("She likes Coffee");
    }
}
```

2.DiplomaTea.java file code

```java
public class DiplomaTea implements Tea {

    @Override
    public void making() {
```

```java
        System.out.println("Welcome to Diploma Tea making
Process");
        System.out.println("Step 1: Take some Water.");
        System.out.println("Step 2: Take some Sugar.");
        System.out.println("Step 3: Take some Milk.");
        System.out.println("Step 4: Take some Diploma Special
Masala Powder.");
        System.out.println("Diploma Tea is Ready");
    }

    @Override
    public void benefits() {
        System.out.println("Benefits of Diploma Tea");
        System.out.println("Refreshing mood and good for
health");

    }
}
```

3.EngineersTea.java file code :-

```java
import java.util.Scanner;

//develop this client in year 2012
public class EngineersTea {

    public static void main(String[] args) throws Exception {
        Scanner sn=new Scanner(System.in);
        String cont="";

        Shubham sham=new Shubham();
        do {
            System.out.println("!!!***Welcome To Engineers
Chai***!!!");
            System.out.println("1.Diploma Tea");
            System.out.println("2. Mechanical Tea");
            System.out.println("3. BCA Tea");
            System.out.println("4. Computerwali Coffee");

    System.out.println("----------------------------");
            System.out.println("Please place your
order...:");
            int choice=sn.nextInt();
            switch(choice) {
            case 1:
```

```java
                    sham.getOrder("DiplomaTea");
                    break;
                case 2:
                    sham.getOrder("MechanicalTea");
                    break;
                case 3:
                    sham.getOrder("BCATea");
                    break;
                case 4:
                    sham.getOrder("ComputerWaliCoffee");
                    break;
                default:
                    System.out.println("Sorry,The order you
entered is not available currently");
                }
                System.out.println("Do you want to continue??...
(T/t)");
                cont=sn.next();
            }while(cont.equalsIgnoreCase("t"));
            System.out.println("Thank you, Please do Visit
Again");
        }
}
```

4.Shubham.java file code :-

```java
//this is container program designed by CTO in year 2010
public class Shubham {
    public void getOrder(String teaName) throws Exception{
        Class order = Class.forName(teaName); //for creating
dynamic object ie at runtime
        Object obj=order.newInstance();//upcasting
        Tea tea=(Tea)obj;//downcasting

        tea.making();
        tea.benefits();
    }
}
```

5.tea.java interface file code :-

```java
//API level design for tea making app in year 2010
public interface Tea {
    //making
    void making();

    //benefits
```

```
        void benefits();
}
```

OUTPUT:-

```
Console ×   Problems   Debug Shell
EngineersTea [Java Application] C:\Program Files\Java\jdk-17.0.1\bin\javaw.exe  (04-Feb-2022, 3:41:05 pm)
!!!***Welcome To Engineers Chai***!!!
1.Diploma Tea
2. Mechanical Tea
3. BCA Tea
4. Computerwali Coffee
---------------------------
Please place your order...:
4
Welcome to ComputerWali Coffee making Process
Step 1: Take some Water.
Step 2: Take some Sugar.
Step 3: Take some Milk.
Step 4: Take some Computer Special Coffee Powder.
Computer Coffee is Ready
Benefits of Computer Coffee
Refreshing mood and good for health
She likes Coffee
Do you want to continue??...(T/t)
t
!!!***Welcome To Engineers Chai***!!!
1.Diploma Tea
2. Mechanical Tea
3. BCA Tea
4. Computerwali Coffee
---------------------------
Please place your order...:
1
Welcome to Diploma Tea making Process
Step 1: Take some Water.
Step 2: Take some Sugar.
Step 3: Take some Milk.
Step 4: Take some Diploma Special Masala Powder.
Diploma Tea is Ready
Benefits of Diploma Tea
Refreshing mood and good for health
Do you want to continue??...(T/t)
```