

Name :Rupali Dhanaji
Yadav.

Program name :- Tea Making App

1.ComputerWaliCoffee.java file code :-

```
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

```
public class DiplomaTea implements Tea {

    @Override
    public void making() {

        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 :-

```

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="";

        Rupali rupa=new Rupali();
        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:
                    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");
            }
        } while (cont != "q");
    }
}

```

```

        }
        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.Rupali.java file code :-

//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 :-

//API level design for tea making app in year 2010

```

public interface Tea {
    //making
    void making();

    //benefits
    void benefits();
}

```

OUTPUT: -

```
TeamMakingApp/src/EngineersTea.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
Console x 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)
```