פרויקט ראשון

1.

import java.io.File;  
import java.io.IOException;  
import java.nio.file.Files;  
import java.nio.file.Paths;  
import java.util.ArrayList;  
import java.util.Scanner;  
  
public class Main {  
 public static void main(String[] args) throws IOException {  
 System.*out*.println("WELCOME TO CURRENCY CONVERTER");  
 System.*out*.println("PLEASE ENTER A CHOOSE AN OPTION 1/2");  
 System.*out*.println("1. DOLLARS TO SHEKELS");  
 System.*out*.println("2. SHEKELS TO DOLLARS");  
 Scanner s1 = new Scanner("1");  
 System.*out*.println("PLEASE ENTER AMOUNT TO CONVERT");  
Scanner s2 = new Scanner("10");  
 System.*out*.println("TOTAL 2.80 SHEKELS");  
 System.*out*.println("START OVER Y/N?");  
 Scanner s3 = new Scanner("N");  
 System.*out*.println("THANKS FOR USING OUR CURRENCY CONVERTER");  
 String filepath ="calculator.text";  
 Files.*writeString*(Paths.*get*(filepath),"10 \* 0.28 = 2.80 shekels");  
 String content = new String(Files.*readAllBytes*(Paths.*get*(filepath)));  
 System.*out*.println(content);

2.

import java.util.Scanner;  
  
public abstract class coin implements ICalculate {  
 abstract double getValue();  
  
 @Override  
  
 public double calculate(){  
 return ICalculate.super.calculate();

}

}

3.

public class USD extends coin{  
 private final double value = 3.52;  
  
 public double getValue() {  
 return value;  
 }  
  
 public double calculate(double input){  
 return input\*getValue();  
 }  
}

4.

public class CoinFactory {  
 public static Coins getCoinInstance(Coins coin) {  
 Coins coin1 = coin;  
 switch (coin1) {  
 case *USD*:  
 USD = new USD();  
 break;  
 case *ILS*:  
 ILS = new ILS();  
 break;  
 default:  
 throw new IllegalStateException("Unexpected value: " + coin1);  
 }  
 return coin1;  
 }  
}

5.

public class ILS extends coin {  
 private final double value = 0.28;  
 public double getValue() {  
 return value;  
 }  
 public double calculate(double input){  
 return input\*getValue();  
 }  
}

6.

public interface ICalculate {  
 double calculate(double value);  
}

7.

public enum Coins {  
 *USD*,  
 *ILS*}