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**Project Name: EnigmaMachine**

**Author: Cameron Villnave**

**Date Written: October 12, 2020**

**Synopsis: This program is the starting program for the Enigma Machine**

**\*/**

package enigmamachineproject;

import java.io.IOException;

import java.util.Scanner;

public class EnigmaMachineProject {

public static void main(String[] args) throws IOException {

MenusClass optmenu = new MenusClass(); // Menus constructor to create Options Menu

MenusClass.BlankScreen(); // Clears screen before painting menu

MenusClass.MainMenuScreen();

System.out.println(" Enter the number of the program you would like to run: ");

Scanner in = new Scanner(System.in);

int numbentered;

numbentered = in.nextInt();

if (numbentered == 1) {

System.out.println("Option 1 Selected");

MenusClass.BlankScreen();

MenusClass.EncryptionScreen();

} else {

if (numbentered == 2) {

System.out.println("Option 2 Selected");

MenusClass.BlankScreen();

MenusClass.DecryptionScreen();

} else {

if (numbentered == 3) {

System.out.println("Exiting the program");

System.exit(0);

}

}

}

Scanner myObj = new Scanner(System.in); // Create a Scanner object

int menuSelection = myObj.nextInt(); // Read user input

System.out.println("Option selected is: " + menuSelection); // Output user input

EncryptionClass myEMessage = new EncryptionClass();

DecryptionClass myDMessage = new DecryptionClass();

if (menuSelection == 1) {

// this is where you will call the method to obtain the message to be encrypted

myEMessage.encryptData();

System.out.println("Option selected is: " + menuSelection); // Output user input

}

else if (menuSelection == 2) {

// this is where you will call the method to obtain to message to be decrypted

myDMessage.decryptData();

System.out.println("Option selected is: " + menuSelection); // Output menu selection

} else {

// this where you will exit the program

java.lang.System.exit(0);

}

}

}

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**Program Name: EncryptionClass**

**Author: Cameron Villnave**

**Date Written: October 12, 2020**

**Synopsis: This class collects and encrypts the message provided by the user**

**\*/**

package enigmamachineproject;

import java.util.Scanner;

public class EncryptionClass {

// create an encryptData() method

public void encryptData() {

Scanner myMessage = new Scanner(System.in); // Create a Scanner object

System.out.println("Enter the message to be encrypted ");

String encryptMessage = myMessage.nextLine(); // Read user input

System.out.println("Message to be encrypted is : " + encryptMessage); // Output user input

}

}

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**Program Name: DecryptionClass**

**Author: Cameron Villnave**

**Date Written: October 12, 2020**

**Synopsis: This class collects and decrypts the message provided by the user**

**\*/**

package enigmamachineproject;

import java.util.Scanner;

public class DecryptionClass {

// create an decryptData() method

public void decryptData() {

Scanner myMessage = new Scanner(System.in); // Create a Scanner object

System.out.println("Enter the message to be decrypted ");

String decryptMessage = myMessage.nextLine(); // Read user input

System.out.println("Message to be decrypted is : " + decryptMessage); // Output user input

}

}

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**Program Name: MenusClass**

**Author: Cameron Villnave**

**Date Written: November 8, 2020**

**Synopsis: This class reads in all of the menus**

**\*/**

package enigmamachineproject;

import java.io.BufferedReader;

import java.io.File;

import java.io.FileNotFoundException;

import java.io.FileReader;

import java.io.IOException;

public class MenusClass {

static void MainMenuScreen() throws FileNotFoundException, IOException {

String fileName = "/Users/cameronvillnave/Desktop/ScreenBuilder/MainMenuScreen.txt";

File infile = new File(fileName);

BufferedReader br = new BufferedReader(new FileReader(infile));

String st;

while ((st = br.readLine()) != null) {

System.out.println(st);

}

}

static void EncryptionScreen() throws FileNotFoundException, IOException {

String fileName = "/Users/CameronVillnave/Desktop/ScreenBuilder/EncryptionScreen.txt";

File infile = new File(fileName);

BufferedReader br = new BufferedReader(new FileReader(infile));

String st;

while ((st = br.readLine()) != null) {

System.out.println(st);

}

}

static void DecryptionScreen() throws FileNotFoundException, IOException {

String fileName = "/Users/CameronVillnave/Desktop/ScreenBuilder/DecryptionScreen.txt";

File infile = new File(fileName);

BufferedReader br = new BufferedReader(new FileReader(infile));

String st;

while ((st = br.readLine()) != null) {

System.out.println(st);

}

}

static void BlankScreen() throws FileNotFoundException, IOException {

String fileName = "/Users/cameronvillnave/Desktop/ScreenBuilder/BlankScreen.txt";

File infile = new File(fileName);

BufferedReader br = new BufferedReader(new FileReader(infile));

String st;

while ((st = br.readLine()) != null) {

System.out.println(st);

}

}

}