

```
/**
 * Idea: Create an app in Java that detects symptoms, as well as provide resources to educate
 on opioid overdose
 * Ru hacks may 2020
 * App name: Envision
 */
```

```
import java.util.Scanner;
```

```
public class AppName {
```

```
    private static final String exitMessage = " (0 to exit)"; //to leave loop
```

```
    /**
     * choose between 2 main functions.
     * welcome: c (chatBot) or d (detectSymptoms)
     */
```

```
    public static void main(String[] args) {
        boolean askAgain = true;
```

```
        do {
            System.out.println("\nWelcome: chatBot or detectSymptoms?" + exitMessage);
            Scanner scannerChoice = new Scanner(System.in);
            String responseChoice = scannerChoice.next();
```

```
            if(responseChoice.equalsIgnoreCase("chatBot") ||
responseChoice.equalsIgnoreCase("c")){
                //System.out.println("running chatBot"); //debug
                chatBot();
```

```
            } else if(responseChoice.equalsIgnoreCase("detectSymptoms") ||
responseChoice.equalsIgnoreCase("d")){
                //System.out.println("running detectSymptoms"); //debug
                detectSymptoms();
```

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            }else if (responseChoice.equals("0")){ //exit
                askAgain = false;
```

```
            } else {
                System.out.println("invalid");
            }
```

```
        } while (askAgain == true);
    }
```

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/**
 * Create a chatbot to educate on symptoms and laws regarding opioid use //use text to
speech
 * chat bot: how, help, or notif
 * help: info, friend, 911, or helpline
 * notif: get hours passed or add an hour
 */
public static void chatBot(){
    boolean askAgain = true;
    int strikes = 0;

    do {

        System.out.println("\nchatBot: Ask 'how are you' or 'help' or 'notif.'" + exitMessage);
        Scanner scannerChat1 = new Scanner(System.in);
        String responseChat1 = scannerChat1.nextLine();

        if(responseChat1.equalsIgnoreCase("how are you") ||
responseChat1.equalsIgnoreCase("How")){
            System.out.println("I'm fine. How are you");
            //starts a mini convo

        } else if(responseChat1.equalsIgnoreCase("help")){
            boolean askAgain2 = true;

            do {
                System.out.println("\nHelp: Get information, call friend, call 911, or call helpline" +
exitMessage);
                Scanner scannerChat = new Scanner(System.in);
                String responseChat = scannerChat.next();

                if(responseChat.equalsIgnoreCase("i") ||
responseChat.equalsIgnoreCase("information")){ //gives info about symptoms
                    System.out.println("things to look for: \nOpiates/Opioids: Changes in skin colour,
Pinpoint pupils, Unconscious.\nStimulants: Foaming at the mouth, Heavy sweating
\nHallucinogens:Trance-like state \nAlcohol:Clammy skin, Vomiting");
                }else if (responseChat.equalsIgnoreCase("f") ||
responseChat.equalsIgnoreCase("friend")){
                    System.out.println("calling a friend"); //calls a friend

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        }else if (responseChat.equalsIgnoreCase("9") ||
responseChat.equalsIgnoreCase("911")){
            System.out.println("calling 911 "); //calls 911

            }else if (responseChat.equalsIgnoreCase("h") ||
responseChat.equalsIgnoreCase("helpline")){
                System.out.println("calling a helpline"); //calls a mental health or drug prevention
helpline. Or can give numbers/websites to dif resources

            }else if (responseChat.equals("0")){ //exit
                askAgain2 = false;

            }else {
                System.out.println("invalid");
            }
        } while (askAgain2 == true);

        }else if (responseChat1.equalsIgnoreCase("notif") ||
responseChat1.equalsIgnoreCase("n")){
            strikes = notif(strikes);

        }else if (responseChat1.equals("0")){ //exit
            //askAgain = false;
            return;

        }else {
            System.out.println("invalid");
        }
    } while (askAgain == true);
}

/**
 * Set notifications if you are doing opioids alone and to ensure that you are okay
 */
public static int notif(int strikes) {
    final int CHECK_TIME = 3; //every few hours
    boolean askAgain = true;

    Time time = new Time();
    int hoursPassed = time.getHoursPassed();

```

```

//change the time

do {
    System.out.println("\nnotif: get hours passed, or add an hour" + exitMessage);
    Scanner scannerNotif = new Scanner(System.in);
    String responseNotif = scannerNotif.nextLine();

    if (responseNotif.equalsIgnoreCase("get") || responseNotif.equalsIgnoreCase("g")) {
        System.out.println("hoursPassed = " + time.getHoursPassed());
        //System.out.println("hoursPassed = " + hoursPassed + " " + time.getHoursPassed());
//debug

    }else if (responseNotif.equalsIgnoreCase("add") || responseNotif.equalsIgnoreCase("a"))
{
        System.out.println("adding an hour");
        time.addHour();
        hoursPassed = time.getHoursPassed();

        //System.out.println("hoursPassed = " + hoursPassed + " " + time.getHoursPassed());
//debug

        if (hoursPassed == CHECK_TIME){
            askAgain = false;
        }

    }else if (responseNotif.equals("0")){ //exit
        return strikes;

    }else{
        System.out.println("invalid"); //should ask again
    }
} while(askAgain == true);

//messages

if (hoursPassed == CHECK_TIME){ // notify every find if CHECK_TIME hours
    time = new Time(); //reset
    hoursPassed = time.getHoursPassed();

    System.out.println("Are you using drugs? y/n" + exitMessage);
    Scanner scannerDrugs = new Scanner(System.in);
    String response = scannerDrugs.next(); //responseDrugs

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        if (response.equalsIgnoreCase("n") || response.equalsIgnoreCase("no")) {
            System.out.println("good");

        }else if (response.equalsIgnoreCase("y") || response.equalsIgnoreCase("yes")) {
            //System.out.println("adding a strike"); //debug

            strikes ++;
            System.out.println("strikes = " + strikes); //debug

            //3 strikes
            if (strikes == 1){
                System.out.println("calling a helpline");

            } else if (strikes == 2){
                System.out.println("calling a friend");

            }else if (strikes >= 3){
                System.out.println("calling 911");
                //use maps api to find closest hospital
            }

        }else if (response.equals("0")){ //exit
            return strikes;

        }else{
            System.out.println("invalid");
        }
    }
    return strikes;
}

/**
 * Integrating Google Vision API to determine symptoms
 */
public static void detectSymptoms() {
    boolean safe = true;
    System.out.println("detectSymptoms: detecting...");

    //do stuff with vision api (determines safe) //eg look at Changes in pupil size

    if (safe){
        System.out.println("you are safe");
    }
}

```

```

        } else{
            System.out.println("you are not safe");
        }

    }
}

```

```

/**
 * class to add time
 */

```

```

class Time{
    private static int hoursPassed; //instance var

    public Time(){ //constructor
        hoursPassed = 0;
    }

    //methods
    public void addHour(){
        hoursPassed ++;
    }

    public int getHoursPassed(){
        return hoursPassed;
    }
}

```

```

///----- notes
/* (del later)

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```

cd C:\Users\Phoebe\Desktop\ru hacks
javac AppName.java
java AppName

```

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*/

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