VISVESVARAYA TECHNOLOGICAL UNIVERSITY

Belagavi – 590 018

A

Mini Project

Report On

"DETECTION & TREATMENT OF DISEASES"

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in

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IV Semester, **18CS45-P - Object Oriented Concepts Laboratory**

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Certificate

Certified that the Mini Project Work entitled **"DETECTION & TREATMENT OF DISEASES",** carried out by **Mohammed Shahzadul Quadri (1HK20CS093), Mohammed Tamheed Shariff (1HK20CS095), Numa Fathima Khanum (1HK20CS114), Nisarga B.S (1HK20CS111),** are bonafide students of **HKBK COLLEGE *of* ENGINEERING**, in partial fulfillment for the award of **Bachelor of Engineering** in **Computer Science and Engineering** of the **Visvesvaraya Technological University**, Belgaum, during the year **2021–22**. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of **18CS45-P - Object Oriented Concepts Laboratory** prescribed for the said Degree.

Prof. J. Mary Stella Guide	Dr. Ashok Kumar Professor & HOD	Dr. Tabassum Ara Principal

External Guide

Name of the Examiners	Signature with Date
1.	
2.	

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ABSTRACT

One of the most significant subjects of society is human healthcare. It is looking for the best one and robust disease diagnosis to get the care they need as soon as possible. Other fields, such as statistics and computer science, are needed for the health aspect of searching since this recognition is often complicated. The task of following new approaches is challenging these disciplines, moving beyond the conventional ones. The actual number of new techniques makes it possible to provide a broad overview that avoids particular aspects. To this end, we suggest a systematic analysis and detection of human diseases. This project concentrates on existing techniques related to the diagnosis of human illnesses in the medical field to discover trends and patterns, perform detections, and help in decision-making.

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CHAPTER 1

INTRODUCTION

1.1 Overview:

Java is a widely used object-oriented programming language and software platform that runs on billions of devices, including notebook computers, mobile devices, gaming consoles, medical devices and many others. The rules and syntax of Java are based on the C and C++ languages.

One major advantage of developing software with Java is its portability. Once you have written code for a Java program on a notebook computer, it is very easy to move the code to a mobile device. When the language was invented in 1991 by James Gosling of Sun Microsystems (later acquired by Oracle), the primary goal was to be able to "write once, run anywhere."

Java is a technology consisting of both a programming language and a software platform. To create an application using Java, you need to download the Java Development Kit (JDK), which is available for Windows, macOS, and Linux. You write the program in the Java programming language, then a compiler turns the program into Java bytecode—the instruction set for the Java Virtual Machine (JVM) that is a part of the Java runtime environment (JRE). Java bytecode runs without modification on any system that supports JVMs, allowing your Java code to be run anywhere.

The Java software platform consists of the JVM, the Java API, and a complete development environment. The JVM parses and runs (interprets) the Java bytecode. The Java API consists of an extensive set of libraries including basic objects, networking and security functions; Extensible Markup Language (XML) generation; and web services. Taken together, the Java language and the Java software platform create a powerful, proven technology for enterprise software development.

CHAPTER 2

SYSTEM REQUIREMENTS SPECIFICATIONS

Software Requirements:

Operating System	: Windows
Front End	: Java
Coding Language	: Java

Hardware Requirements

System	: Intel® Core™ i3 – 6006U CPU @ 2.00GHz
Hard Disk	: 30 GB or above
Monitor	: 15 VGA color
RAM	: 4GB or above

Introduction to Environment

NetBeans is an integrated development environment (IDE) for Java. NetBeans allows applications to be developed from a set of modular software components called modules. NetBeans runs on Windows, macOS, Linux and Solaris. In addition to Java development, it has extensions for other languages like PHP, C, C++, HTML5, and JavaScript. Applications based on NetBeans, including the NetBeans IDE, can be extended by third party developers.

The IDE provides integrated support for the complete development cycle, from project creation through debugging, profiling and deployment. The IDE runs on Windows, Linux, Mac OS X, and other UNIX-based systems.

The IDE provides comprehensive support for JDK 7 technologies and the most recent Java enhancements. It is the first IDE that provides support for JDK 7, Java EE 7, and JavaFX 2. The IDE fully supports Java EE using the latest standards for Java, XML, Web services, and SQL and fully supports the GlassFish Server, the reference implementation of Java EE.

CHAPTER 3

IMPLEMENTATION

IMPLEMENTATION

Implementation is an act or instance of implementing something that is, the process of making something active oreffective. Implementation must follow any preliminary thinking in order for something to actually happen. In the context of information technology, implementation encompasses the process involved in getting new software or hardware to operate properly in its environment. This includes installation, configuration, running, testing and making necessary changes.

3.1 treatment.java

```
import java.util.*;
import java.lang.*;

class treatment {
   public static void main(String args[]) {

      Scanner sc = new Scanner(System.in);

      System.out.print("Enter your name : ");
      String name = sc.next();

      System.out.print("Enter your age : ");
      int age = sc.nextInt();

      System.out.print("Enter Body Temperature in Celcius : ");
      float temp = sc.nextFloat();

      System.out.println("\n\n-----SYMPTOMS-----");
      System.out.println("1. Restlessness\n2. Tiredness\n3. Head Ache\n4. Block or Running Nose\n5. Sneezing\n6. Cough\n7. Body Pain\n8. Breathing Problem\n9. Vomit\n10. Stomach Ache");
      System.out.println("11. Weakness\n12. Sweat\n13. Sour Taste\n14. Burning in Stomach\n15. Other Problem\n");

      int flag = 0;
      int a=0, b=0, c=0, d=0, e=0, f=0, g=0, h=0, i=0, j=0, k=0, l=0, m=0, n=0, o=0, p=0;

      while(flag == 0) {
         System.out.println("\nEnter Symptoms : ");
         int ab = sc.nextInt();
         System.out.println("Type 99 to Exit");

         switch(ab) {
            case 1 : a=1;
                  flag = 0;
                  break;
            case 2 : b=1;
                  flag = 0;
                  break;
            case 3 : c=1;
                  flag = 0;
```

```
            break;
        case 4 : d=1;
            flag = 0;
            break;
        case 5 : e=1;
            flag = 0;
            break;
        case 6 : f=1;
            flag = 0;
            break;
        case 7 : g=1;
            flag = 0;
            break;
        case 8 : h=1;
            flag = 0;
            break;
        case 9 : i=1;
            flag = 0;
            break;
        case 10 : j=1;
            flag = 0;
            break;
        case 11 : k=1;
            flag = 0;
            break;
        case 12 : l=1;
            flag = 0;
            break;
        case 13 : m=1;
            flag = 0;
            break;
        case 14 : n=1;
            flag = 0;
            break;


        case 15 : System.out.println("Please Consult a Doctor!!");
            flag = 1;
            break;
        case 99 : flag = 1;
            break;
        default : System.out.println("Invalid Entry!!");
            flag = 1;
            break;
    }
}


if(a==1 && b==1 && c==1) {
    System.out.println("\nYour are going through Depression and Anxiety.");
    System.out.println("Do Meditation and Yoga.");
    System.out.println("Take leave from college and go for an outing.");
    System.out.println("Consult a Doctor.");
}
else if(d==1 && e==1 && f==1) {
    System.out.println("\nYou have Common Cold or Flu.");
```

```
        System.out.println("Drink hot and plenty of Water, Take Dolo tablet.");
        System.out.println("If situation not under control, Consult a Doctor.");
      }
      else if(f==1 && g==1 && h==1 && (temp>=98)) {
        System.out.println("\nYou have COVID-19");
        System.out.println("Isolate yourself to avoid spreading.");
        System.out.println("Immediately consult a Doctor.");
      }
      else if(i==1 && j==1 && k==1) {
        System.out.println("\nYou have Food Poisoning");
        System.out.println("Avoid eating junk food and drink plenty of water.");
      }
      else if(c==1 && l==1 && g==1 && i==1) {
        System.out.println("\nYou have Dengue or Malaria");
        System.out.println("Prevent yourself from contact with mosquito.");
        System.out.println("Take Dolo tablet and Consult a Doctor.");
      }
      else if(m==1 && n==1) {
        System.out.println("\nYou have Acidity");
        System.out.println("Have Glocone D, and avoid junk food");
      }
      else if(temp >= 98){
        System.out.println("\nYou are having a high fever!!");
      }
      else {
        System.out.println("\nYou are completely fine!!");
        System.out.println("Attend classses because you dont have Doctors prescription!!");
      }

   }
}
```

CHAPTER 4

SNAPSHOTS

SNAPSHOTS & OUTPUT

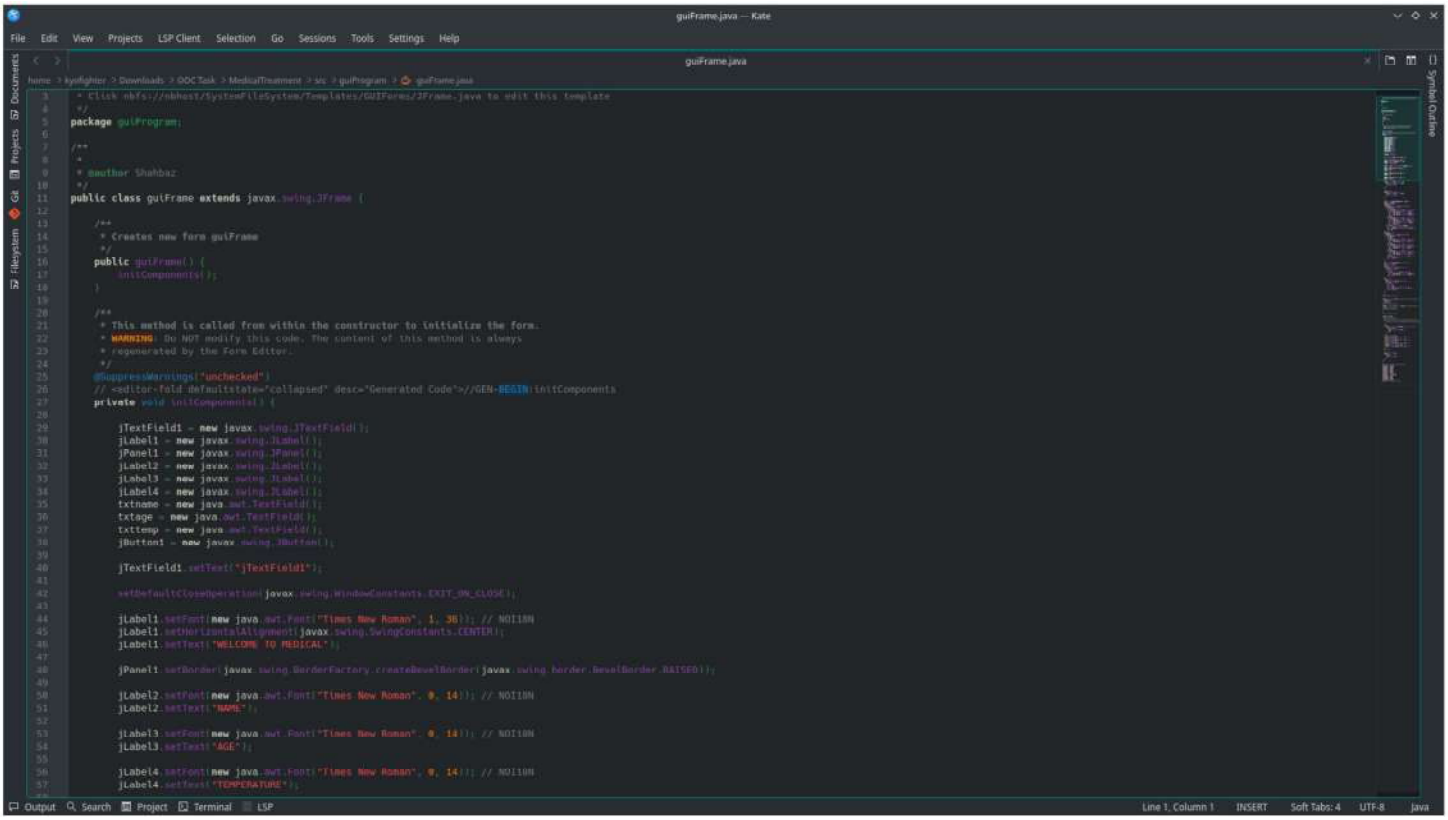

Fig 4.1 guiFrame.java

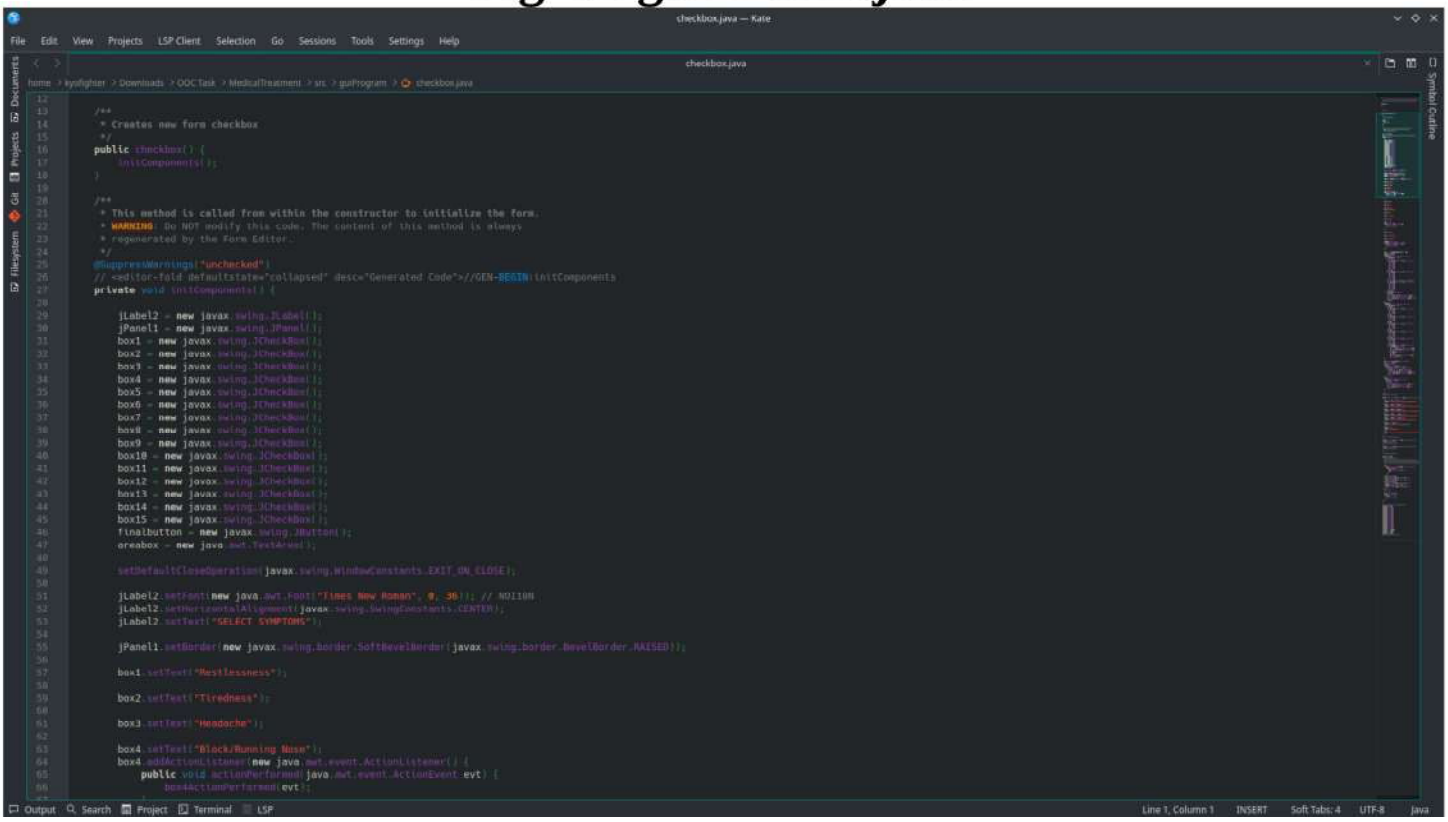

Fig 4.2 checkbox.java

OUTPUT:

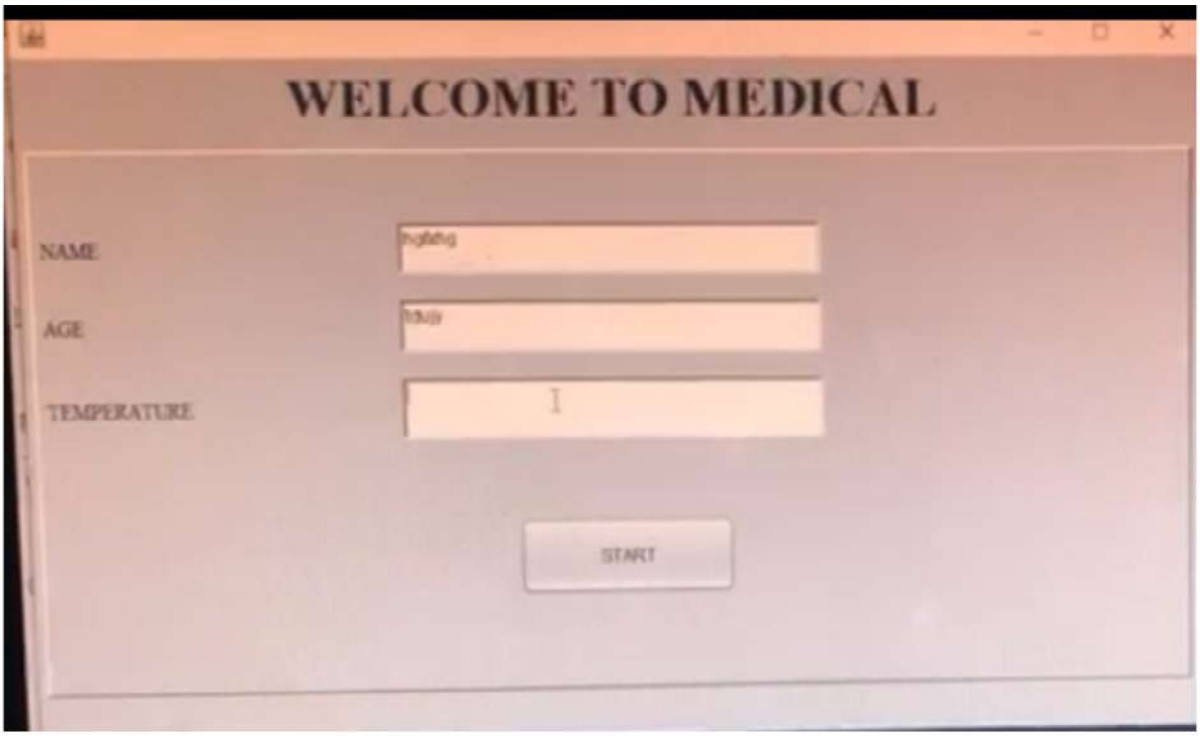

Fig 4.3 Welcome Screen

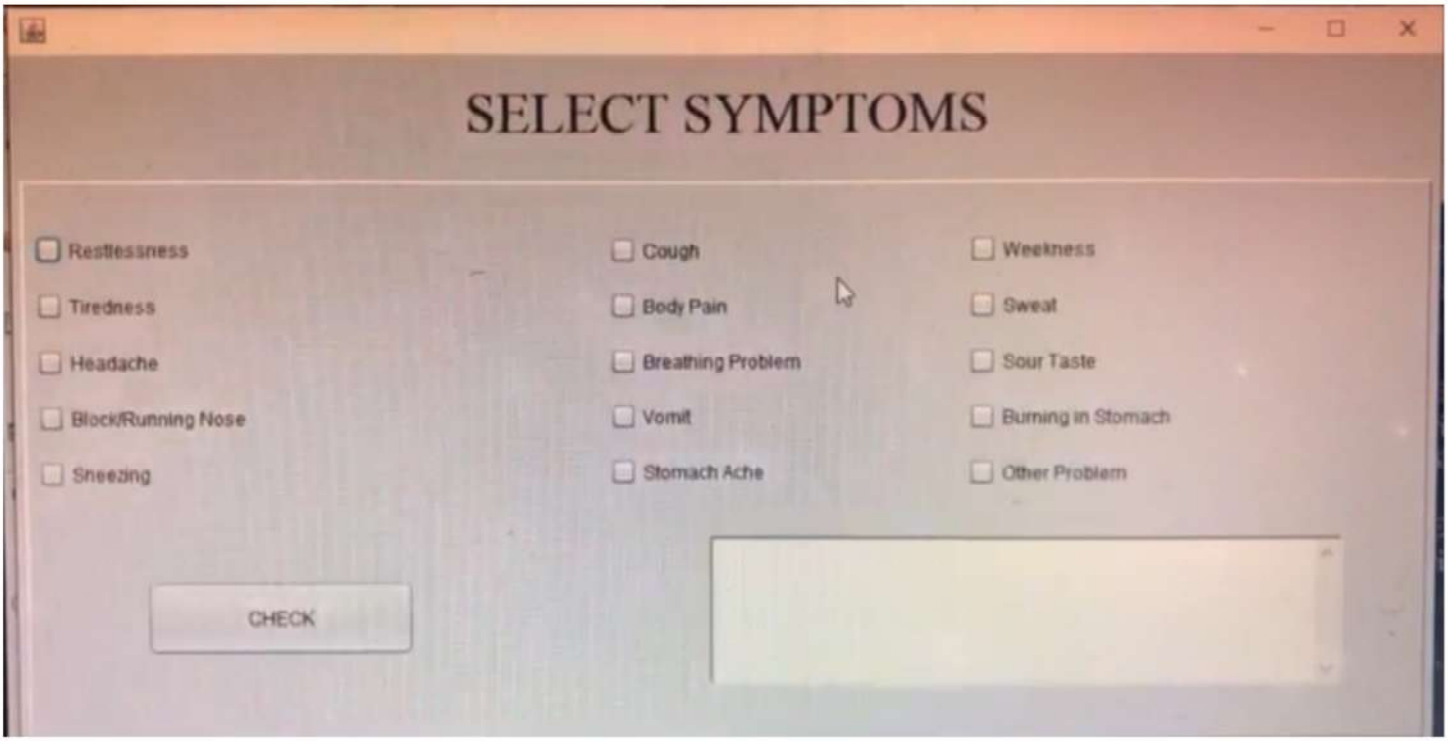

Fig 4.4 Symptoms Form

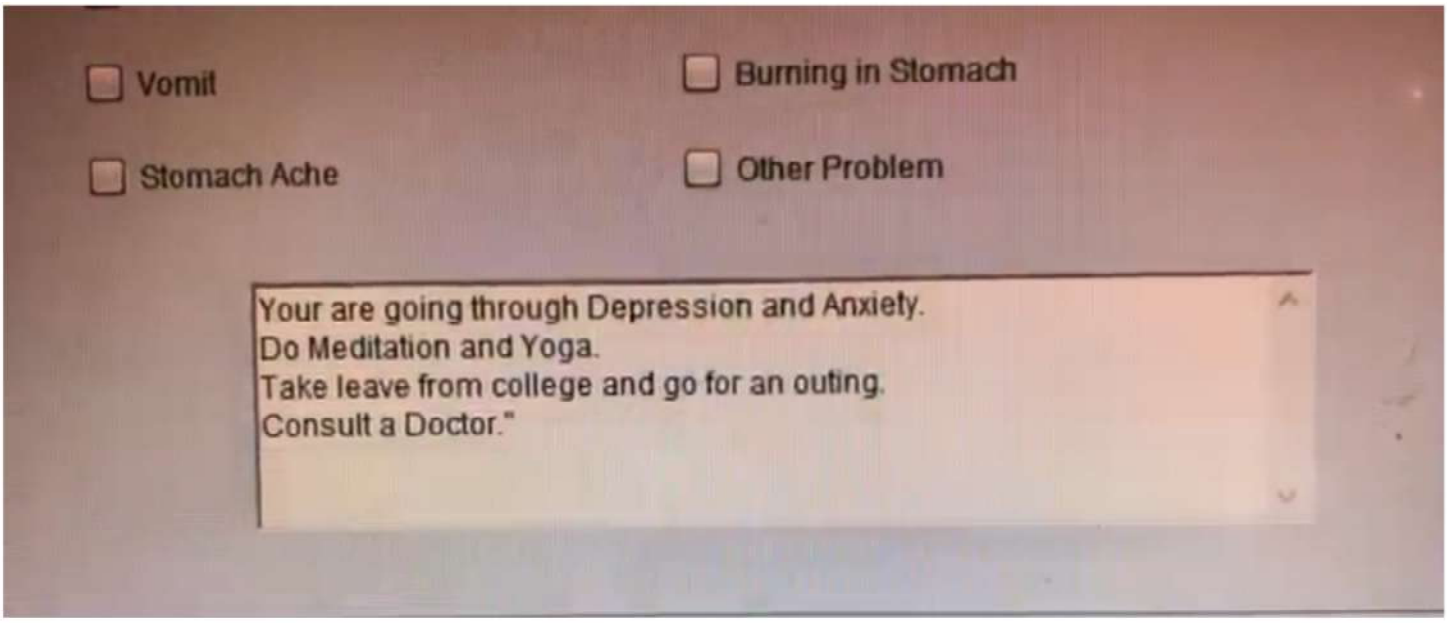

Fig 4.5 Output

CONCLUSION

An overall summarization for the project done by our team is to help the society efficiently in finding the appropriate remedy for their diseases or sickness.

Our project strives in improving the health care system in this country and also made the remedies readily available for everyone.

Our project is simple and easy to comprehend. And anyone can easily understand the methods to use the software. It’s including basic knowledge of healthcare. The software does not completely replace the healthcare system, it only helps the people to know their basic symptoms and based on that analysis the patient can decide if further treatment is required or not. It efficiently reduces the cost of unnecessary visits to the clinic for consultation.

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