```
ackage week1;
mport java.util.Scanner;
mport javax.swing.*;
mport java.util.*;
import java.awt.*;
import java.awt.event.MouseAdapter;
import java.awt.event.MouseEvent;
{ static String name;
 static int age;
 static String g;
 static int wt.
 static String bgo:
        public static void details()
   Scanner sc=new Scanner(System.in);
   System.out.println("Enter The Patient's Name:");
   name=sc.next();
   System.out.println("Enter The Patient's Age:");
   age=sc.nextInt();
   System.out.println("Enter The Patient's Gender:");
   g=sc.next();
   System. out.println("Enter The Patient's Weight:");
   wt=sc.nextInt();
   System.out.println("Enter The Patient's Blood Group:");
  bgo=sc.next();
class MedicalCardDisplay {
 public static void displayMedicalCard(String diagnosis) {
   SwingUtilities.invokeLater(() -> {
      JFrame frame = new JFrame("Medical Card");
      frame.setSize(800, 600); // Set the size of the frame
      frame.getContentPane().setBackground(Color. WHITE); // Set background color
      frame.setLayout(new BorderLayout()); // Set layout manager
      String nm=Details.name;
      int ag=Details.age;
      String gen=Details.g;
      String bgr=Details.bgo;
      int wg=Details.wt,
      JLabel introLabel=new JLabel("Hi "+nm+"!");
      JLabel reportLabel = new JLabel("Here's your preliminary medical diagnosis report");
      JLabel diagnosisLabel = new JLabel("Based on your responses, your probable diagnosis is:");
      JLabel diagnosisValueLabel = new JLabel("<a href="https://div.style="border: 1px solid black;">https://div.style="border: 1px solid black;</a>; padding:
5px;'>" + diagnosis + "</div></html>");
      JLabel recommendationLabel = new JLabel ("We recommend consulting with a professional to
confirm this preliminary assessment and seek appropriate guidance.");
      JLabel infoLabel = new JLabel("You can also refer to the following resources for additional
information.");
      JLabel thankYouLabel = new JLabel("Thank you for using our diagnosis system. Stay healthy,
stay fit.");
      Font font = new Font("Arial", Font. BOLD, 18); // Set font
      Color textColor = Color.BLACK; // Set text color
      introLabel.setFont(font);
      reportLabel.setFont(font);
```

```
introLabel.setHorizontalAlignment(JLabel.CENTER);
       reportLabel.setHorizontalAlignment(JLabel.CENTER);
       diagnosisLabel.setHorizontalAlignment(JLabel.CENTER);
       diagnosisValueLabel.setHorizontalAlignment(JLabel.CENTER);
       recommendationLabel.setHorizontalAlignment(JLabel.CENTER);
       thankYouLabel.setHorizontalAlignment(JLabel.CENTER);
       JPanel infoPanel = new JPanel();
       infoPanel.setBackground(new Color(173, 216, 230));
       infoPanel.setLayout(new GridLayout(4, 1,0,10));
       infoPanel.setBorder(BorderFactory.createEmptyBorder(10, 20, 10, 20)); // Add padding
       JLabel nameLabel = new JLabel("<html><div style='border: 1px solid black: padding:
5px:'>"+"Name: " + Details.name+"</div></html>"):
       JLabel ageLabel = new JLabel("<html><div style='border: 1px solid black; padding:
5px;'>"+"Age: " + Details.age+"</div></html>");
JLabel genderLabel = new JLabel("<html><div style='border: 1px solid black; padding: 5px;'>"+"Gender: " + Details.g+"</div></html>");

JLabel weightLabel = new JLabel("<html><div style='border: 1px solid black; padding: 5px;'>"+"Weight: " + Details.wt+"</div></html>");

JLabel bloodLabel= new JLabel("<html><div style='border: 1px solid black; padding: 5px;'>"+"Blood Group: "+ Details.bgo+"</div></html>");

5px;'>"+"Blood Group: "+ Details.bgo+"</div></html>");
      Font labelFont = new Font("Arial", Font.BOLD, 20); nameLabel.setFont(labelFont);
       ageLabel.setFont(labelFont);
       genderLabel.setFont(labelFont);
       weightLabel.setFont(labelFont);
       bloodLabel.setFont(labelFont);
       nameLabel.setHorizontalAlignment(SwingConstants.CENTER);
       ageLabel.setHorizontalAlignment(SwingConstants. CENTER);
       genderLabel.setHorizontalAlignment(SwingConstants.CENTER);
       weightLabel.setHorizontalAlignment(SwingConstants. CENTER):
       bloodLabel.setHorizontalAlignment(SwingConstants.CENTER):
       infoPanel.add(Box.createVerticalStrut(10));
       infoPanel.add(nameLabel):
       infoPanel.add(Box.createVerticalStrut(5));
       infoPanel.add(ageLabel);
       infoPanel.add(Box.createVerticalStrut(5));
       infoPanel.add(genderLabel);
       infoPanel.add(Box.createVerticalStrut(5));
       infoPanel.add(weightLabel);
       infoPanel.add(Box.createVerticalStrut(5));
       infoPanel.add(bloodLabel);
       infoPanel.add(Box.createVerticalStrut(5));
       JPanel mainPanel = new JPanel(new BorderLayout());
       mainPanel.setBackground(Color.WHITE);
       mainPanel.add(infoPanel, BorderLayout. CENTER);
       mainPanel.add(diagnosisLabel, BorderLayout.NORTH);
       mainPanel.add(diagnosisValueLabel, BorderLayout.SOUTH);
       frame.add(mainPanel);
       infoPanel.setLayout(new BoxLayout(infoPanel, BoxLayout.X AXIS)); // Set X AXIS orientation
       infoPanel.add(Box.createRigidArea(new Dimension(10, 0))); // Add spacing between labels
       infoPanel.add(Box.createRigidArea(new Dimension(10, 0))); // Add spacing between labels
       infoPanel.add(Box.createRigidArea(new Dimension(10, 0))); // Add spacing between labels
       infoLabel.setHorizontalAlignment(JLabel.CENTER);
       diagnosisLabel.setFont(font);
       diagnosisValueLabel.setFont(font);
       recommendationLabel.setFont(font);
```

```
infoLabel.setFont(font);
      thankYouLabel.setFont(font);
      diagnosisLabel.setForeground(textColor);
      diagnosisValueLabel.setForeground(textColor);
      recommendationLabel.setForeground(textColor);
      infoLabel.setForeground(textColor);
      thankYouLabel.setForeground(textColor);
      JLabel label = new JLabel("Click here to refer to resources");
      Color darkBlue = new Color(0, 0, 128);
      label.setForeground(darkBlue);
      label.setCursor(Cursor.getPredefinedCursor(Cursor.HAND CURSOR));
      label.addMouseListener(new MouseAdapter() {
         @Override
         public void mouseClicked(MouseEvent e) {
           try {
              Desktop.getDesktop().browse(new
java.net.URI("https://drive.google.com/file/d/17KgWsIiYy7ud7J C E4IPMVGgW9oGQM7/view?usp=s
haring"));
           } catch (Exception ex) {
              ex.printStackTrace();
      });
      label.setFont(new Font("Arial", Font. BOLD, 20)); // Set font to Arial, bold, size 20
      label.setHorizontalAlignment(JLabel.CENTER);
      JPanel panel = new JPanel();
      panel.setBackground(Color.LIGHT_GRAY);
      panel.setLayout(new GridLayout(0, 1));
      panel.add(introLabel);
      panel.add(reportLabel);
      panel.add(infoPanel); // Add the panel containing name, age, gender labels
      panel.add(diagnosisLabel);
      panel.add(diagnosisValueLabel):
      panel.add(recommendationLabel):
      panel.add(infoLabel);
      panel.add(label):
      panel.add(thankYouLabel);
      JPanel headerPanel = new JPanel(new BorderLayout());
      headerPanel.setBackground(new Color(0, 0, 128)); // Dark blue color headerPanel.setPreferredSize(new Dimension(frame.getWidth(), 50)); // Set height
      JLabel headerLabel = new JLabel("Welcome to SymptoScan"); headerLabel.setForeground(Color. WHITE); // White text color
      headerLabel.setFont(new Font("Arial", Font.BOLD, 20)); // Set font
      headerLabel.setHorizontalAlignment(SwingConstants. CENTER);
      headerPanel.add(headerLabel, BorderLayout. CENTER);
      JScrollPane scrollPane = new JScrollPane(panel);
      frame.add(scrollPane, BorderLayout.CENTER); // Add scroll pane to center of frame
      frame.add(headerPanel, BorderLayout.NORTH);
      frame.setLocationRelativeTo(null); // Center the frame on the screen
      frame.setVisible(true);
   });
 class TreeNode {
        String diagno;
 String name;
 TreeNode yesNode;
 TreeNode noNode;
```

```
public TreeNode(String name) {
   this.name = name;
   this.yesNode = null;
   this.noNode = null;
 public void setYesNode(TreeNode node) {
   this.yesNode = node;
 public void setNoNode(TreeNode node) {
   this.noNode = node;
 public String getName() {
   return name:
 public TreeNode getYesNode() {
   return yesNode;
                       root=new TreeNode("Does the patient have
 public TreeNode getNoNode() {
   return noNode;
 oublic class Disease_Diagnosis {
       private static TreeNode root,
  public static void main(String[] args) {
            buildTree();
            diagnose();
         private static void buildTree() {
fever?"):
                    TreeNode highfeverNode = new TreeNode("Does the patient have high grade
fever?");
                   TreeNode nofeverNode=new TreeNode("Does the patient feel low or lethargic?");
                    TreeNode recent travelNode = new TreeNode("Did he/she travel recently?");
                    TreeNode lowgradefeverNode = new TreeNode("Does the patient have a low
grade fever?");
                   TreeNode food yesNode = new TreeNode("Consumption of food from outside");
                    TreeNode weaknessNode = new TreeNode("Is the patient having symptoms like
weakness, fatigue?");
                    TreeNode coughNode = new TreeNode("Is the patient having symptoms like
cough, chest pain or shortness of breath?");
                    TreeNode diarrhoeaNode = new TreeNode("Does the patient have diarrhoea or
constipation?");
                    TreeNode vomitting_100Node = new TreeNode("Is the patient experiencing
vomitting?");
                    TreeNode vomitting_40Node = new TreeNode("Is the patient experiencing
vomitting?");
                    TreeNode lowfever_recentTravelNode = new TreeNode("Did he/she travel
recently?");
                   TreeNode TyphoidNode = new TreeNode("Typhoid");
                   TreeNode Typhoid_40Node = new TreeNode("The patient has
typhoid(probability=30-40%)");
                    TreeNode NoTyphoidNode = new TreeNode("The patient doesn't have typhoid
and might have some other disease or common fever");
                    TreeNode cough fatigue lossofappetiteNode = new TreeNode("Is the patient
experiencing fatigue, loss of appetite or nausea and vomitting");
                    TreeNode chronic_diseaseNode = new TreeNode("Does the patient have any
medical history of chronic illnesses like asthama, diabetes etc.");
                    TreeNode common_feverNode = new TreeNode("The patient has common
fever");
```

```
TreeNode smoking_100Node = new TreeNode("Does the patient smoke? or is
exposed to pollutants due to job or any other reason?");
                   TreeNode smoking_Node = new TreeNode("Does the patient smoke? or is
exposed to pollutants due to job or any other reason?");
                   TreeNode PneumoniaNode = new TreeNode("The patient has pneumonia");
                   TreeNode PneumoniaNode_80 = new TreeNode("The patient has pneumonia
(probability=80%)");
                   TreeNode PneumoniaNode_low = new TreeNode("The patient has pneumonia
(low probability)");
                   TreeNode lowfever foodNode=new TreeNode("Has the patient consumed food
from outside?"):
                   TreeNode lowfever weaknessNode=new TreeNode("Does the patient feel
weakness or experience loss in appetite?"):
                   TreeNode lowfever stomachpainNode=new TreeNode("Does the patient feel
stomach pain or has experienced vomiting?");
                   TreeNode lowfever_runnynoseNode=new TreeNode("Does the patient have a
runny nose or a sore throat?");
                   TreeNode lowfever_yelloweyesNode=new TreeNode("Does the patient have
yellow eyes or skin/dark urine/experience change in colour of stool?");
                   TreeNode lowfever_commonfever_utiNode=new TreeNode("Male: Common
Fever; Female: UTI");
                   TreeNode lowfever_hepatitisaNode=new TreeNode("Hepatitis A");
                   TreeNode lowfever_foodpoisoning=new TreeNode("Food Poisoning or
Appendicitis");
                   TreeNode lowfever_commoncoldNode=new TreeNode("Common Cold");
                   TreeNode lowfever_hormonesNode=new TreeNode("Hormonal Fluctuations");
                   TreeNode noFeverLowLethargicNode = new TreeNode("Does the patient feel
low or lethargic?");
                   TreeNode sadHopelessNode = new TreeNode("Does the patient feel sad,
hopeless or empty");
                   TreeNode sleepPatternNode = new TreeNode("Is there a change in the patient's
sleeping pattern?");
                   TreeNode worrinessNode = new TreeNode("Does the patient experience feelings
of worriness and irritability?");
                   TreeNode worrinessIrritabilityNode = new TreeNode("Does the patient
experience feelings of worriness and irritability?");
                   TreeNode appetiteNode = new TreeNode("Is there a change in the patient's
appetite?");
                   TreeNode worriness yesNode = new TreeNode("anxiety");
                   TreeNode periods_yesNode = new TreeNode("Does the patient face irregular
periods?");
                   TreeNode weightNode = new TreeNode("Is there a sudden change in patient's
weight?");
                   TreeNode overconcerned_weightNode = new TreeNode("Is the patient
overconcerned about their weight?");
                   TreeNode oilyFaceNode_weightyes = new TreeNode("Does the patient has oily
skin, hairloss or facial hair growth?");
                   TreeNode oilyFaceNode_weightno=new TreeNode("Does the patient has oily
skin, hairloss or facial hair growth?");
                   TreeNode food_intakeNode=new TreeNode("Does the patient frequently keep a
track of their food intake?");
                   TreeNode binge eatNode=new TreeNode("Does the patient binge eat? or
restricts themself from eating?");
                   TreeNode sedentary lifestyleNode=new TreeNode("Does the patient leads a
sedentary lifestyle?");
                   TreeNode seasonal_changesNode=new TreeNode("The change in appetite
might be occuring due to seasonal changes");
                   TreeNode health_checkupNode=new TreeNode("Health checkup is required");
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TreeNode avoid_socialoutingsNode=new TreeNode("Does the patient avoid
social situations involving food?");

TreeNode health_consciousNode=new TreeNode("You are Health conscious");
                    TreeNode self_inducedNode=new TreeNode("Does the patient experience
purging behaviour?(self induced vomitting or extreme exercise.)");
                    TreeNode stress_eatingNode=new TreeNode("Stress Eating");
                    TreeNode eating_disorder_high=new TreeNode("Eating Disorder");
                    TreeNode eating_disorder_low=new TreeNode("Eating Disorder(Low
Probability)");
                   TreeNode stressNode = new TreeNode("Stress or bad lifestyle");
                   TreeNode pcosNode = new TreeNode("PCOS");
                   TreeNode menopauseNode = new TreeNode("Menopause"):
                    TreeNode lossOfInterestNode = new TreeNode("Has the patient experienced
loss of interest or focus lately?"):
                    TreeNode eatingHabitsNode = new TreeNode("Are there any changes in
patient's eating habits?");
                    TreeNode changeInLifeNode 100 = new TreeNode("Are there any major
changes in patient's life?");
                    TreeNode changeInLifeNode_80 = new TreeNode("Are there any major changes
in patient's life?");
                    TreeNode sweatingNode = new TreeNode("Does the patient experience
sweating, rapid heartbeat or shortness of breath");
                    TreeNode lonelinessNode = new TreeNode("Does the patient overthink or
experience feelings of loneliness?");

TreeNode muscleTensionNode = new TreeNode("Does the patient experience
muscle cramps(clenching of fist, jaw)/trembling?");
                    TreeNode panicAttacksNode = new TreeNode("Panic Attacks");
                    TreeNode thoughtsOfDying_100Node = new TreeNode("Is the patient
experiencing a thoughts of dying or losing control?");

TreeNode thoughtsOfDying_80Node = new TreeNode("Is the patient
experiencing a thoughts of dying or losing control?");
                    TreeNode depression 100Node = new
TreeNode("Depression(Probability:100%)");
                    TreeNode depression_lowNode = new TreeNode("Depression(Lower Probability
or Teporary depresion)");
                    TreeNode dysthymiaNode = new TreeNode("dysthymia");
                    TreeNode anxietyNode = new TreeNode("Anxiety");
                    TreeNode skin_relatedNode = new TreeNode("Is the patient facing any skin
related issues?");
                   TreeNode dry_skinNode = new TreeNode("Does the patient have dry,cracked or
itchy skin?");
                    TreeNode rashesNode = new TreeNode("Does the patient have rashes?");
                    TreeNode acne_dryskinNode = new TreeNode("Does the patient have acne?");
                   TreeNode acneNode = new TreeNode("Does the patient have acne?");
                   TreeNode acnecardNode = new TreeNode("Acne");
                    TreeNode seasonal_dryskinNode = new TreeNode("The patient is having dry
and itchy skin due to seasonal changes");
                    TreeNode coin_rashesNode = new TreeNode("Does the patient have coin
shaped rashes?");
                    TreeNode darkening skinNode = new TreeNode("Is the patient experiencing
darkening of skin?");
                    TreeNode hyperpigmentationNode=new TreeNode("Hyperpigmentation");
                    TreeNode dehydrated skinNode=new TreeNode("Dehydrated skin");
                    TreeNode ringwormNode=new TreeNode("Nummular dermatitis or Ringworm");
                    TreeNode blisterNode=new TreeNode("Does the patient have fluid filled
blisters?");
                   TreeNode mouth_chinNode=new TreeNode("Is it around mouth chin or nose?");
                    TreeNode hairloss_rashNode=new TreeNode("Does the patient have hair loss at
the rash site?"):
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TreeNode skin_irritatingNode=new TreeNode("Has the patient come in contact
with any substance which might cause skin allergies or any person who has skin related issues?");
                  TreeNode impetigoNode=new TreeNode("Impetigo");
TreeNode contact_dermatitisNode=new TreeNode("Contact Dermatitis");
                  TreeNode eczemaNode=new TreeNode("Eczema");
                  root.setYesNode(highfeverNode);
                  root.setNoNode(noFeverLowLethargicNode);
                  highfeverNode.setYesNode(recent_travelNode);
                  highfeverNode.setNoNode(lowgradefeverNode);
                  lowgradefeverNode.setYesNode(lowfever_recentTravelNode);
                  lowgradefeverNode.setNoNode(lowfever recentTravelNode);
                  recent travelNode.setYesNode(food yesNode);
                  recent travelNode.setNoNode(food vesNode):
                  food vesNode.setYesNode(weaknessNode):
                  food yesNode.setNoNode(coughNode);
                  weaknessNode.setYesNode(diarrhoeaNode);
                  weaknessNode.setNoNode(diarrhoeaNode);
                 diarrhoeaNode.setYesNode(vomitting_100Node);
                 diarrhoeaNode.setNoNode(vomitting_40Node);
                 vomitting_100Node.setYesNode(TyphoidNode);
                 vomitting_100Node.setNoNode(TyphoidNode);
                 vomitting_40Node.setYesNode(Typhoid_40Node);
                 vomitting_40Node.setNoNode(NoTyphoidNode);
                 coughNode.setYesNode(cough_fatigue_lossofappetiteNode);
                 coughNode.setNoNode(common_feverNode);
                 cough_fatigue_lossofappetiteNode.setYesNode(chronic_diseaseNode);
                 cough_fatigue_lossofappetiteNode.setNoNode(common_feverNode);
                 chronic_diseaseNode.setYesNode(smoking_100Node);
                 chronic diseaseNode.setNoNode(smoking Node);
                 smoking_100Node.setYesNode(PneumoniaNode);
                 smoking 100Node.setNoNode(PneumoniaNode);
                 smoking Node.setNoNode(PneumoniaNode 80);
                 smoking Node.setNoNode(PneumoniaNode low);
                  lowfever recentTravelNode.setYesNode(lowfever foodNode);
                  lowfever recentTravelNode.setNoNode(lowfever foodNode);
                  lowfever_foodNode.setYesNode(lowfever_weaknessNode);
                  lowfever foodNode.setNoNode(lowfever weaknessNode);
                  lowfever_weaknessNode.setYesNode(lowfever_stomachpainNode);
                  lowfever_weaknessNode.setNoNode(lowfever_runnynoseNode);
                  lowfever_stomachpainNode.setYesNode(lowfever_yelloweyesNode);
                  lowfever_stomachpainNode.setNoNode(lowfever_commonfever_utiNode);
                  lowfever_yelloweyesNode.setYesNode(lowfever_hepatitisaNode);
                  lowfever_yelloweyesNode.setNoNode(lowfever_foodpoisoning);
                  lowfever_runnynoseNode.setYesNode(lowfever_commoncoldNode);
                  lowfever_runnynoseNode.setNoNode(lowfever_hormonesNode);
                 nofeverNode.setYesNode(noFeverLowLethargicNode);
                 nofeverNode.setNoNode(noFeverLowLethargicNode);
                 noFeverLowLethargicNode.setYesNode(sadHopelessNode);
                 sadHopelessNode.setYesNode(sleepPatternNode);
                 sadHopelessNode.setNoNode(worrinessNode);
                 worrinessNode.setYesNode(anxietyNode);
                 worrinessNode.setNoNode(appetiteNode);
                 sleepPatternNode.setYesNode(lossOfInterestNode);
                 sleepPatternNode.setNoNode(lossOfInterestNode);
                 lossOfInterestNode.setYesNode(eatingHabitsNode);
         lossOfInterestNode.setNoNode(worrinessIrritabilityNode);
                  worrinessIrritabilityNode.setYesNode(sweatingNode);
                  worrinessIrritabilityNode.setNoNode(IonelinessNode);
                  lonelinessNode.setYesNode(dysthymiaNode);
```

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sweatingNode.setYesNode(muscleTensionNode);
sweatingNode.setNoNode(anxietyNode);
muscleTensionNode.setYesNode(panicAttacksNode);
muscleTensionNode.setNoNode(panicAttacksNode);
panicAttacksNode.setYesNode(anxietyNode);
panicAttacksNode.setNoNode(anxietyNode);
eatingHabitsNode.setYesNode(changeInLifeNode_100);
eatingHabitsNode.setNoNode(changeInLifeNode_80);
changeInLifeNode_100.setYesNode(thoughtsOfDying_100Node);
changeInLifeNode 100.setNoNode(thoughtsOfDying 80Node);
changeInLifeNode 80.setYesNode(depression 100Node);
changeInLifeNode 80.setNoNode(depression 100Node);
thoughtsOfDying 100Node.setYesNode(depression 100Node);
thoughtsOfDying 100Node.setNoNode(depression 100Node);
thoughtsOfDying_80Node.setYesNode(depression_100Node);
thoughtsOfDying_80Node.setNoNode(depression_lowNode);
appetiteNode.setYesNode(periods_yesNode);
appetiteNode.setNoNode(periods_yesNode);
periods_yesNode.setYesNode(weightNode);
periods_yesNode.setNoNode(overconcerned_weightNode);
weightNode.setYesNode(oilyFaceNode_weightyes);
weightNode.setNoNode(oilyFaceNode_weightno);
oilyFaceNode_weightyes.setYesNode(pcosNode);
oilyFaceNode_weightyes.setNoNode(menopauseNode);
oilyFaceNode_weightno.setYesNode(stressNode);
oilyFaceNode_weightno.setNoNode(stressNode);
overconcerned_weightNode.setYesNode(food_intakeNode);
overconcerned weightNode.setNoNode(sedentary lifestyleNode);
food_intakeNode.setYesNode(binge_eatNode);
food intakeNode.setNoNode(seasonal changesNode);
sedentary lifestyleNode.setYesNode(health_checkupNode);
sedentary lifestyleNode.setNoNode(health checkupNode);
binge eatNode.setYesNode(avoid socialoutingsNode);
binge eatNode.setNoNode(health consciousNode);
avoid_socialoutingsNode.setYesNode(self_inducedNode);
avoid socialoutingsNode.setNoNode(stress eatingNode);
self_inducedNode.setYesNode(eating_disorder_high);
self_inducedNode.setNoNode(eating_disorder_low);
noFeverLowLethargicNode.setNoNode(skin_relatedNode);
skin_relatedNode.setYesNode(dry_skinNode);
skin_relatedNode.setNoNode(health_checkupNode);
dry_skinNode.setYesNode(rashesNode);
dry_skinNode.setNoNode(acneNode);
rashesNode.setYesNode(coin_rashesNode);
rashesNode.setNoNode(acne_dryskinNode);
acne_dryskinNode.setYesNode(acnecardNode);
acne_dryskinNode.setNoNode(dehydrated_skinNode);
acneNode.setYesNode(acnecardNerpigmentationNode);
darkening skinNode.setNoNode(dehydrated skinNode);
coin rashesNode.setYesNode(ringworode);
acneNode.setNoNode(darkening skinNode);
darkening skinNode.setYesNode(hypmNode):
coin rashesNode.setNoNode(blisterNode);
blisterNode.setYesNode(mouth_chinNode);
blisterNode.setNoNode(hairloss_rashNode);
hairloss_rashNode.setYesNode(eczemaNode);
hairloss_rashNode.setNoNode(seasonal_dryskinNode);
mouth_chinNode.setYesNode(impetigoNode);
```

lonelinessNode.setNoNode(dysthymiaNode);

```
mouth_chinNode.setNoNode(skin_irritatingNode);
  skin_irritatingNode.setYesNode(contact_dermatitisNode);
  skin_irritatingNode.setNoNode(seasonal_dryskinNode);
}
// Perform diagnosis based on user input
private static void diagnose() {
  Scanner scanner = new Scanner(System.in);
TreeNode currentNode = root;
  Details.details();
  while (true) {
     System.out.println(currentNode.getName() + " (yes/no)");
     String answer = scanner.nextLine().toLowerCase();
     if (answer.equals("yes")) {
       currentNode = currentNode.getYesNode();
     } else if (answer.equals("no")) {
       currentNode = currentNode.getNoNode();
       System.out.println("Invalid input. Please enter 'yes' or 'no'.");
     if (currentNode == null) {
       System.out.println("Diagnosis: Unknown");
     if (currentNode.getYesNode() == null && currentNode.getNoNode() == null) {
       System.out.println("Diagnosis: " + currentNode.getName());
       MedicalCardDisplay.displayMedicalCard(currentNode.getName());
  scanner.close();
```