import java.io.\*;

import java.util.\*;

import java.awt.Color;

import java.awt.Font;

import java.awt.Image;

import java.net.URL;

import javax.imageio.ImageIO;

import javax.swing.ImageIcon;

import javax.swing.JFrame;

import javax.swing.JLabel;

import javax.swing.SwingConstants;

public class FinalProjectFinished {

public static void main(String[] args) {

JFrame frame = new JFrame("Your Character Is:");

frame.setSize(900, 900);

//Closes the program when the panel is closed.

frame.setDefaultCloseOperation(JFrame.EXIT\_ON\_CLOSE);

Scanner console = new Scanner(System.in);

Character player = new Character();

//map for questions and answers

ArrayList<String> Qs = new ArrayList<String>();//

Qs.add("Which is your preferred go-to, on-the-fly drink?\n\n1)Dr. Pepper\n" +

"2)Dark Cherry Powerade.\n" +

"3)Ice water.");

Qs.add("If you were up to bat in a baseball game and a ball was thrown directly at you, what would you do?\n\n1)Get hit by the pitch and jog happily to first.\n" +

"2)Jump out of the batter's box and take a wild swing at it.\n" +

"3)I wouldn't be batting; I would be chasing butterflies in the outfield.");

Qs.add("If you were stuck with only three TV shows to choose from, which would you select?\n\n1)Ring of Honor Wrestling\n" +

"2)NCIS\n" +

"3)Nat Geo's Into the Wild");

Qs.add("What would be your reaction to your grandmother giving you a pair of ugly socks for Christmas?\n\n1)To wear them for a day because it's your grandmother.\n" +

"2)To burn them in the backyard and then mail her an envelope with the ashes.\n" +

"3)To turn in the receipt and use the money to buy something different.");

Qs.add("On a sunny day would you prefer to:\n\n1)Go outside and sunbathe for an hour, despite a chance of horrific sunburn.\n" +

"2)Stay inside and play Clash of Clans on your phone.\n" +

"3)Go outside and create a homemade sun dial for the fun of it.");

Qs.add("Which of the following vacations sounds more appealing?\n\n1)A trip to Yosemite National Park.\n" +

"2)Rock climbing in the Appalachian Mountains\n" +

"3)Sky diving in the Grand Canyon");

Qs.add("If you had to get one of the three following pets, which would you choose?\n\n1)A Bengal tiger to keep your mom at bay for when she comes into your room to yell at you for forgetting to do your dishes.\n" +

"2)A termite colony to unleash underneath the annoying next-door neighbor's wooden deck.\n" +

"3)A kitten to help soothe the nerves you get from studying for a computer science final.");

Qs.add("What would you do if you realized that you left your favorite pen in the school library after it closed up for the night?\n\n1)Get hold of the head librarian's phone number and text them non-stop at 3am.\n" +

"2)Break open a window and search the entire library until you found it.\n" +

"3)Forget about it; it's a pen and it's not worth losing 8 hours of sleep over.");

player=BuildChar(console, Qs);

showImage(player, frame);

}

public static Character BuildChar(Scanner console, ArrayList<String> Qs) {//Start program

//counters to keep track of which character to assign based on answers

int H = 0;

int W = 0;

int T = 0;

System.out.println("Welcome to our Character Builder!");

System.out.println("Let's go!\n");

//loop for questions to print and keep track of answers

System.out.println("Choose 1, 2, or 3\n");

for(int i=1; i<9;i++) {

System.out.println("Question "+i+":\n");

System.out.println(Qs.get(i-1));

boolean number = false;

int ans = 0;

while(number==false) {

String A = console.nextLine();

Scanner Answer = new Scanner(A);

number = Answer.hasNextInt();

if(number) {

ans=Answer.nextInt();

if(ans>3||ans<1) {

number=false;

System.out.println("Invalid entry. Please choose 1, 2, or 3");

}

}else {

System.out.println("That's not a number. Please choose 1, 2, or 3");

}

}

if(ans==1) {

T++;

}else if(ans==2) {

W++;

}else if(ans==3) {

H++;

}

}

int c = assignChar(H, W, T);

System.out.println("You've been assigned to the "+Charac(c)+" Class!");

return Type(c);

}

public static Character Type(int x) {

if(x<0||x>2) {

throw new IllegalArgumentException();

}

if(x==0) {

Character H = new Healer();

return H;

}else if(x==1) {

Character W = new Warrior();

return W;

}else {

Character T = new Tank();

return T;

}

}

public static String Charac(int x) {

if(x<0||x>2) {

throw new IllegalArgumentException();

}

if(x==0) {

return "Healer";

}else if(x==1) {

return "Warrior";

}else {

return "Tank";

}

}

public static int assignChar(int H, int W, int T) {

if(((H>2)&&(T==H||H==W))||((W>2)&&(W==T||W==H))) {//break the tie

return tiebreak(H,W,T);

}else if(Math.max(H, W)==H && Math.max(H,T)==H) {//healer biggest score

return 0;

}else if(Math.max(H, W)==W && Math.max(W,T)==W) {//warrior biggest score

return 1;

}else{//Tank biggest score

return 2;

}

}

public static int tiebreak(int H, int W, int T) {

Scanner console = new Scanner(System.in);

System.out.println("Tie-break question:\nChoose 1 or 2");

if(H==W) {//question for tie between Healer and Warrior

System.out.println("Do you prefer a taco salad or a regular taco?\n\n" +

"1)Taco salad\n" + //healer

"2)Regular taco"); //warrior

}else if(H==T) {//question for tie between Healer and Tank

System.out.println("Would you rather walk in the park or take a hike in the mountains?\n\n" +

"1)Walk in the park\n" + //healer

"2)Hike in the mountains"); //tank

}else if(T==W){//question for tie between Tank and Warrior

System.out.println("Do you like high-pressure situations?\n\n" +

"1)No\n" + //tank

"2)Yes"); //warrior

}

int answer = console.nextInt();

while(answer>2||answer<1) {//ensure proper value

System.out.println("Please choose 1 or 2");

answer = console.nextInt();

}

if((H==W||H==T) && answer == 1) {//Answered 1 for Healer

return 0;

}else if((T==W || H==W) && answer==2) {//Answered 2 for Warrior

return 1;

}else {//Answered Tank

return 2;

}

}

public static void showImage(Character ch,JFrame f) {

Image image = null;

URL url = null;

try {

if(ch instanceof Healer)

url = new URL("https://vignette.wikia.nocookie.net/wowwiki/images/f/f8/Taurenhealer.jpg/revision/latest?cb=20061210040032 ");

if(ch instanceof Warrior)

url = new URL("https://blznav.akamaized.net/img/games/cards/card-world-of-warcraft-54576e6364584e35.jpg");

if(ch instanceof Tank)

url = new URL("https://www.blogcdn.com/wow.joystiq.com/media/2008/06/tanktalktoday.jpg ");

image = ImageIO.read(url);

} catch (IOException e) {

e.printStackTrace();

}

//IMAGE OF CHARACTER

JLabel labelImg = new JLabel(new ImageIcon(image), JLabel.CENTER);

labelImg.setBackground(Color.BLACK);

labelImg.setOpaque(true);

f.add(labelImg);

f.setVisible(true);

}

}//end of class