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**Cmpe 150 Assingment 2 Report**

1-Problem Description:

Making an interview for Software Engineer, Accountant, Academic with the user. Asking questions, then getting answers and directing program to new roads of questions.

2-Problem Solution:

Used an introduction method to take name check age and take applied job. For each job created a method and used many nested if statements manually printing questions etc.

Then after talking with the assistant to simplifying thing created two methods named testline()(checks if an answer to a question is correct,wrong or acceptible)and testnumber()(checks whether given numbers is bigger or equals to given number) which returns 1 and 0. Used if statements with these two methods.

Created 2 methods called accepted() and declined() to print result.

Created maleOrNot() method to ask same questions in all of them.

Created Software Engineer(), Accountant(), Academic() methods for each scenario. And called these scenarios according to introduction()'s output.

3-İmplementation:

import java.util.Scanner;

public class OFO2016400048{

public static Scanner console = new Scanner(System.in); //Scanner in the whole code

//This method does first actions asking age, position and returns for which position user is applying.

public static String introduction() {

System.out.println("What is your name?");

String name = console.nextLine();

System.out.println("Hello " + name + ". How old are you?");

int age = console.nextInt();

if (age > 17) {

System.out.println("We are searching for Software Engineer, Accountant, Academic. For which position are you applying?");

console.nextLine();//Eats the line after nextInt and fixes an error.

return console.nextLine();

} else {

System.out.println("Unfortunately our company only accepts people who are older than 18. Good bye.");

return "ageissue";

}

}

public static int testline(String question,String answer,String wrongAnswer) {

System.out.println(question);

String flag=console.nextLine();

while(!flag.equalsIgnoreCase(answer)&&!flag.equalsIgnoreCase(wrongAnswer)){

System.out.println("Please enter one of possible answers");

flag=console.nextLine();

}

if (flag.equalsIgnoreCase(answer)) {

return 1;

} else

return 0;

}

//This method asks a question and tests if it is bigger than the given input.

public static int testnumber(String question, int min) {

System.out.println(question);

if (console.nextInt() >= min) {

console.nextLine();//Eats the line after nextInt and fixes an error.

return 1;

} else

return 0;

}

public static void accepted() {

System.out.println("Congratulations you got the job.");

}

public static void declined() {

System.out.println("Unfortunately you are not qualified for this job. Good bye.");

}

//This method asks gender and military service

public static void maleOrNot() {

if (testline("Are you male?(Yes/No)", "Yes","No") == 1) {

if (testline("Have you done your military service?(Yes/No)", "Yes","No") == 1) {

accepted();

} else declined();

} else accepted();

}

//This method asks questions for Software Engineer.

public static void Software() {

if (testline("Do you have a university degree on Software Engineering or Computer Engineering or Computer Science?(Yes/No)", "Yes","No") == 1) {

if (testnumber("Very good. Then how many programming languages do you know?", 2) == 1) {

if (testline("Do you have 3 years of Software Engineering experience or Software Engineer graduate degree?(Yes/No)", "Yes","No") == 1) {

maleOrNot();

} else declined();

} else declined();

} else declined();

}

//This method asks questions for Accountant.

public static void Accountant() {

if (testline("Do you have Accountant degree?(Yes/No)", "Yes","No") == 1) {

if (testline("Do you know excel well?(Yes/No)", "Yes","No") == 1) {

if (testline("Do you know fluent english or do you have a friend who can translate it for you?(Yes/No)", "Yes","No") == 1) {

if (testnumber("How many people do you know working in the company?", 2) == 1) {

if (testline("Do you have driving license?(Yes/No)", "Yes","No") == 1) {

maleOrNot();

} else declined();

} else declined();

} else declined();

} else declined();

} else declined();

}

//This method asks questions for Academic.

public static void Academic() {

if (testline("Do you speak english?(Yes/No)", "Yes","No") == 1) {

if (testnumber("How many papers have you published?", 3) == 1) {

if (testline("Do you love to teach?(Definitely/Not quite)", "Definitely","Not quite") == 1) {

maleOrNot();

} else declined();

} else declined();

} else declined();

}

public static void main(String[] args) {

String position = introduction();

if (position.equalsIgnoreCase("Software engineer")) {

Software();

} else if (position.equalsIgnoreCase("Accountant")) {

Accountant();

} else if (position.equalsIgnoreCase("Academic")) {

Academic();

} else if (position.equals("ageissue")) {

System.out.println();

} else {

System.out.println("Unfortunately we are just recruiting Software Engineer, Accountant, Academic.");

}

}

}

4- Output Of The Program:

5-Conclusion: Problem has been solved correctly.