**JAVA PROGRAMMING**

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**NAME: Meghna Lohani**

**REG NO: 16BCE1395**

**Problem**

**Write an application in JAVA that trains a student in attending quiz. The Quiz can be of two types namely true of false (TF) and multiple choice questions (MC). The user can supply with a set of questions as follows:**

**2**

**TF 5**

**Peacock is the national bird of India.**

**True**

**MC 10**

**Who is the current president of India?**

**3**

**Pranab Mukherjee**

**A P J Abdul Kalam**

**Pratibha Patil**

**A**

**The above input should be interpreted as number of questions in the test paper (in this case 2). The first question is of the type true / false (T/F) and carries 5 marks.  Next line represents the question and it is followed by answer. The next line indicates that the second question is of multiple choice (MC) type and carries 10 marks. Then question follows with number of choice. Then you supply the list of choices and finally the correct response (A means first answer).**

**Given input as stated in the example, your application should prompt the user to enter his name and starts printing the question. When the user enters the correct answer, his score gets updated accordingly and at the end of the exam the total score is printed to the user.**

**Code**

package quiz;

public class Question {

int marks;

String type;

String ans;

String ques;

void set(String q,int m,String t,String a)

{

ques=q;

marks=m;

type=t;

ans=a;

}

void ask()

{

System.out.println("Question type : "+type);

System.out.println("Marks : "+marks);

System.out.println(ques);

}

}

package quiz;

import java.util.Scanner;

//no of questions entered by user

//print ques

//wait for answer

//verify and update

public class Quiz {

public static void main(String[] args) {

Scanner sc=new Scanner(System.in);

int i;

Question[] q1=new Question[6];

q1[0]=new Question();

q1[0].set("2+2=4?",2,"TF","T");

q1[1]=new Question();

q1[1].set("How many days are there in a week? "

+ "A.7 B.8 C.4 D.10",5,"MCQ","A");

q1[2]=new Question();

q1[2].type="TF";

q1[2].marks=2;

q1[2].ques="Chennai is the capital of india";

q1[2].ans="F";

q1[3]=new Question();

q1[3].type="MCQ";

q1[3].marks=5;

q1[3].ques="What is the sequence of colours in a rainbow? A.VIBGYOR B.VIGBYOR C.VBGYIOR D.VIBYGOR";

q1[3].ans="A";

q1[4]=new Question();

q1[4].set("Where is the Eiffel Tower located? A. New York B.Dubai C.Paris D.India", 5, "MCQ", "C");

q1[5]=new Question();

q1[5].set("2 is a prime number ", 2, "TF", "T");

System.out.print("Enter your name : ");

String name=sc.nextLine();

Student s1=new Student(name);

System.out.print("Enter the number of questions you would like to solve : ");

int nq=sc.nextInt();

String ansnull=sc.nextLine();

for(i=0;i<nq;i++)

{

q1[i].ask();

System.out.println("Answer : ");

String answer=sc.nextLine();

if(answer.equalsIgnoreCase(q1[i].ans))

s1.count+=q1[i].marks;

}

s1.displayResult();

}

}

package quiz;

import java.util.Scanner;

public class Student {

String name;

int count;

Student(String n)

{

name=n;

}

void displayResult()

{

System.out.println("\*\*\*\*\*\*Thank you "+name+" for taking quiz\*\*\*\*\*\*\*\*\*");

System.out.println("Your Score is : "+count);

}

}

**Output**

run:

Enter your name : Meghna

Enter the number of questions you would like to solve : 3

Question type : TF

Marks : 2

2+2=4?

Answer :

T

Question type : MCQ

Marks : 5

How many days are there in a week? A.7 B.8 C.4 D.10

Answer :

B

Question type : TF

Marks : 2

Chennai is the capital of india

Answer :

F

\*\*\*\*\*\*Thank you Meghna for taking quiz\*\*\*\*\*\*\*\*\*

Your Score is : 4

BUILD SUCCESSFUL (total time: 14 seconds)

**Screenshot**

