MIDTERM PROJECT SECTION 5 ARYAN RAO

SUBMISSION DATE:10/12/2021

10/11/2021

Problem

We are supposed to write a code which uses random function to assign one quiz out of three to the user. The code will calculate the marks in a single quiz by counting the number of attempts as well and will also give a total score of all the quizzes taken.

Analysis

We will write three quizzes with three questions each. The questions will be displayed one by one so if the user enters a wrong answer, he is alerted. Wrong questions will be displayed after the end of a single quiz. Also give 10 points as a bonus if more than one quiz is taken.

Design

The main conditions will be checked by switch and if-else statements. Since we want the see if the user wishes to continue, we are going to put everything inside a while loop and use the same in cases of switch as well.

Testing

Calculate the total score of each quiz and the average total score and check it manually with your answer to compare.

Comments

The use of so many conditional statements might create a confusion with braces. Use indentation to avoid this. Make sure to add the required library functions like strcmp, srand and rand and their respective header files like string.h and stdlib.h.

SCREENSHOTS

CODE:

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OUPUT:

```
Last login: Tue Oct 12 14:45:07 on ttys000
aryan@aryanrao11 ~ % /Users/aryan/Desktop/C/midtermProject; exit;
Welcome! We have 3 quizzes in total.
Quiz 1— Based on General Programming.
Quiz 2— Based on condition statements and arrays.
Quiz 3— Based on identifiers and loops.
Enter a number between 1 and 9: 3
Q1 Is default case compulsary to use in switch statement.
a)True
b)False
True
Q2 Select the correct statements.
a)We write break statement after each case in switch statements.
b)Double is not used for floating point numbers.
c)Array is used to store single item.
d)Array index starts from 1.
a
Q3 Fill in the blank with operator to iterate the loop 10 times.
for(int i=0;i___10;i++);

Total Score for Quiz 2: 15.00
Do you want to take another quiz ???
Enter Yes to take and No to Quit
No
Total scores accross all quizes: 15.00
```

```
Welcome! We have 3 quizzes in total.
Quiz 1- Based on General Programming.
Quiz 2- Based on condition statements and arrays.
 Quiz 3- Based on identifiers and loops.
Enter a number between 1 and 9: 7
Q1 We use stdlib.h library for using random function.
 a)True
b)False
False Q2 Select the correct options.
 a) It is not a good practice to leave one space between operators. b)toLowerCase() converts to lower case. c)Integer data types are used for decimals d)toUpperCase() converts to lower case.
  Q3 Fill in the blank.
 We know x=2 already. (x___2)?5:9
Q1 is wrong.
Q2 is wrong.
Q1 We use stdlib.h library for using random function.
 a)True
b)False
 True
  Q2 Select the correct options.
  all is not a good practice to leave one space between operators. b)toLowerCase() converts to lower case.
 c)Integer data types are used for decimals d)toUpperCase() converts to lower case.
 Q3 Fill in the blank. We know x=2 already. (x___2)?5:9
Q2 is wrong.
Q1 We use stdlib.h library for using random function.
 a)True
b)False
 True
  Q2 Select the correct options.
 a) It is not a good practice to leave one space between operators. b) toLowerCase() converts to lower case. c)Integer data types are used for decimals d) toUpperCase() converts to lower case.
 Q3 Fill in the blank. We know x=2 already. (x___2)?5:9
10 5 15
Total Score for Quiz 1: 11.67
Do you want to take another quiz ???
 Enter Yes to take and No to Quit
Total scores accross all quizes : 11.67 Saving session...
```

```
Welcome! We have 3 quizzes in total.

Quiz 1- Based on General Programming.

Quiz 2- Based on condition statements and arrays.

Quiz 3- Based on identifiers and loops.

Enter a number between 1 and 9: 2

Q1 A function definition consists of new function name and a block of statements.

a) True

b) False
 D)Faise
True
Q2 Select the correct statements.
a)We cannot use reserved words for naming variables.
b)Identifiers are not case sensitive.
c)const is not a keyword.
d)Binary has base 16.
   Q3 Fill in the blank.
for(int i=0;i<1;i___){}
Q2 is wrong. Q1 A function definition consists of new function name and a block of statements.
  a)True
b)False
b)False
True
Q2 Select the correct statements.
a)We cannot use reserved words for naming variables.
b)Identifiers are not case sensitive.
c)const is not a keyword.
d)Binary has base 16.
   a
Q3 Fill in the blank.
for(int i=0;i<1;i___){}
++
Total Score for Quiz 3: 12.50
Do you want to take another quiz ???
Enter Yes to take and No to Quit
Enter Yes to take and No to Quit
Yes
Welcome! We have 3 quizzes in total.
Quiz 1- Based on General Programming.
Quiz 2- Based on condition statements and arrays.
Quiz 3- Based on identifiers and loops.
Enter a number between 1 and 9: 9
Q1 We use stdlib.h library for using random function.
a)True
b)False
True
 True

Q2 Select the correct options.
a)It is not a good practice to leave one space between operators.
b)toLowerCase() converts to lower case.
c)Integer data types are used for decimals
d)toUpperCase() converts to lower case.
   Q3 Fill in the blank.
We know x=2 already.
(x___2)?5:9
==
5 5 5
Total Score for Quiz 1: 15.00
Do you want to take another quiz ???
Enter Yes to take and No to Quit
No
Total scores accross all quizes : 27.50
Saving session...
```