**QUIZ**

*CODE:*

package qquiz;

import java.util.Scanner;

import java.util.regex.Pattern;

public class demo {

public static void main (String[]args)

{

String ans10,name;

int count;

do {

count=0;

String ans1,ans3,ans4,anss;

Scanner scanner = new Scanner(System.in);

System.out.println("\nWhat is your first name?");

name = scanner.nextLine();

if(Pattern.matches("[a-zA-Z]+",name))

{

System.out.print("————————————————————————————————————————————————————————————————————————————————————————————————————————————————————————");

System.out.println("\nWelcome to Who Wants to be a Millionaire! As I'm sure "

+ "you know, you will have to answer 3 questions correctly. \n\n And you have 3 lifelines to work with:\n \t1. 50/50 \n \t2. Poll the audience \n \t3. Ask a friend \n\n" +"So "+ name+ " lets begin! You "

+ "have a chance to win ONE MILLION RUPEES!!!");

System.out.print("————————————————————————————————————————————————————————————————————————————————————————————————————————————————————————");

System.out.println("\n1. " +"Which one of these lists contains only Java programming language keywords?");

System.out.println("a. class, if, void, long, Int, continue\n" +

"b. goto, instanceof, native, finally, default, throws\n" +

"c. try, virtual, throw, final, volatile, transient\n" +

"d. strictfp, constant, super, implements, do\n\nLifelines are :"+

"\n1. 50/50 \n" +

"2. Poll the audience \n" +

"3. Call a friend");

System.out.print("Ans : ");

Scanner sc = new Scanner(System.in);

String ans= sc.nextLine();

if (!ans.matches("[a-zA-Z1-3]+")) {

System.out.println("Invalid Expression");

}

else {

switch(ans.toLowerCase()) {

case "a":

System.out.println("Incorrect\n\nExplanation:\nOption A is wrong because the keyword for the primitive int starts with a lowercase i.");

break;

case "b":

System.out.println("Correct\n");

count++;

System.out.println("Explanation:\nAll the words in option B are among the 49 Java keywords.\nAlthough goto reserved as a keyword in Java, goto is not used and has no function.");

break;

case "c":

System.out.println("Incorrect\n\nExplanation:\nOption C is wrong because \"virtual\" is a keyword in C++, but not Java.");

break;

case "d":

System.out.println("Incorrect\n\nExplanation:\nOption D is wrong because \"constant\" is not a keyword. Constants in Java are marked static and final.");

break;

case "1":

System.out.println("\nYou chose the 50/50 lifeline!\nYour choices are now between: \nb. goto, instanceof, native, finally, default, throws\nd. strictfp, constant, super, implements, do ");

Scanner swc = new Scanner(System.in);

System.out.print("Ans : ");

ans1= swc.next();

if(ans1.equals("b")||ans1.equals("B"))

{

System.out.println("Correct\n");

count++;

System.out.println("Explanation:\nAll the words in option B are among the 49 Java keywords.\nAlthough goto reserved as a keyword in Java, goto is not used and has no function.");

break;

}

else if(ans1.equals("d")||ans1.equals("D"))

{

System.out.println("Incorrect\n\nExplanation:\nOption D is wrong because \"constant\" is not a keyword. Constants in Java are marked static and final.");

break;

}

else {System.out.println("Invalid Input");break;}

case "2":

System.out.println("\nYou chose poll the audience lifeline!\n" +

"The audience, out of 100 people said: \n"+

" a. 8%\n b. 75%\n c. 5%\n d. 12%\n");

Scanner swwc = new Scanner(System.in);

System.out.print("Ans : ");

ans1= swwc.next();

switch(ans1.toLowerCase()) {

case "a":

System.out.println("Incorrect\n\nExplanation:\nOption A is wrong because the keyword for the primitive int starts with a lowercase i.");

break;

case "b":

System.out.println("Correct \n");

count++;

System.out.println("Explanation:\nAll the words in option B are among the 49 Java keywords.\nAlthough goto reserved as a keyword in Java, goto is not used and has no function.");

break;

case "c":

System.out.println("Incorrect\n\nExplanation:\nOption C is wrong because \"virtual\" is a keyword in C++, but not Java.");

break;

case "d":

System.out.println("Incorrect\n\nExplanation:\nOption D is wrong because \"constant\" is not a keyword. Constants in Java are marked static and final.");

break;

default:

System.out.println("Invalid Input");

}

break;

case "3":

System.out.println("\nYou chose the call a friend lifeline!\nYour friend says: Oh, I think its B!");

Scanner swwwc = new Scanner(System.in);

System.out.print("Ans : ");

ans1= swwwc.next();

switch(ans1.toLowerCase()) {

case "a":

System.out.println("Incorrect\n\nExplanation:\nOption A is wrong because the keyword for the primitive int starts with a lowercase i.");

break;

case "b":

System.out.println("Correct\n");

count++;

System.out.println("Explanation:\nAll the words in option B are among the 49 Java keywords.\nAlthough goto reserved as a keyword in Java, goto is not used and has no function.");

break;

case "c":

System.out.println("Incorrect\n\nExplanation:\nOption C is wrong because \"virtual\" is a keyword in C++, but not Java.");

break;

case "d":

System.out.println("Incorrect\n\nExplanation:\nOption D is wrong because \"constant\" is not a keyword. Constants in Java are marked static and final.");

break;

default:

System.out.println("Invalid Input");

}

break;

default:

System.out.println("Invalid Input");

}

}

System.out.println("\nCurrent score is : "+count);

System.out.print("————————————————————————————————————————————————————————————————————————————————————————————————————————————————————————");

System.out.println("\n2. " +"Which will legally declare, construct, and initialize an array?");

System.out.println("a. int [] myList = {\"1\", \"2\", \"3\"};\n" +

"b. int [] myList = (5, 8, 2);\n" +

"c. int myList [] [] = {4,9,7,0};\n" +

"d. int myList [] = {4, 3, 7};"+"\n\nLifelines are :"+

"\n1. 50/50 \n" +

"2. Poll the audience \n" +

"3. Call a friend");

System.out.print("Ans : ");

Scanner sccc = new Scanner(System.in);

String ans2= sccc.nextLine();

if (!ans2.matches("[a-zA-Z1-3]+")) {

System.out.println("Invalid Expression");

}

else {

switch(ans2.toLowerCase()) {

case "a":

System.out.println("Incorrect\n\nExplanation:\nOption A is wrong because it initializes an int array with String literals.");

break;

case "b":

System.out.println("Incorrect\n\nExplanation:\nOption B is wrong because it use something other than curly braces for the initialization");

break;

case "c":

System.out.println("Incorrect\n\nExplanation:\nOption C is wrong because it provides initial values for only one dimension, although the declared array is a two-dimensional array.");

break;

case "d":

System.out.println("Correct\n");

count++;

System.out.println("Explanation:\nThe only legal array declaration and assignment statement is Option D");

break;

case "1":

System.out.println("\nYou chose the 50/50 lifeline!\nYour choices are now between: c. int myList [] [] = {4,9,7,0};\n d. int myList [] = {4, 3, 7};\n");

Scanner swc = new Scanner(System.in);

System.out.print("Ans : ");

ans3= swc.next();

if(ans3.equals("d")||ans3.equals("D"))

{

System.out.println("Correct\n");

count++;

System.out.println("Explanation:\nThe only legal array declaration and assignment statement is Option D");

break;

}

else if(ans3.equals("c")||ans3.equals("C"))

{

System.out.println("Incorrect\n\nExplanation:\nOption C is wrong because it provides initial values for only one dimension, although the declared array is a two-dimensional array.");

break;

}

else {System.out.println("Invalid Input");break;}

case "2":

System.out.println("\nYou chose poll the audience lifeline!\n" +

"The audience, out of 100 people said: \n"+

" a. 4%\n b. 6%\n c. 12%\n d. 78%\n");

Scanner swwc = new Scanner(System.in);

System.out.print("Ans : ");

ans3= swwc.next();

switch(ans3.toLowerCase()) {

case "a":

System.out.println("Incorrect\n\nExplanation:\nOption A is wrong because it initializes an int array with String literals.");

break;

case "b":

System.out.println("Incorrect\n\nExplanation:\nOption B is wrong because it use something other than curly braces for the initialization");

break;

case "c":

System.out.println("Incorrect\n\nExplanation:\nOption C is wrong because it provides initial values for only one dimension, although the declared array is a two-dimensional array.");

break;

case "d":

System.out.println("Correct\n");

count++;

System.out.println("Explanation:\nThe only legal array declaration and assignment statement is Option D");

break;

default:

System.out.println("Invalid Input");

}

break;

case "3":

System.out.println("\nYou chose the call a friend lifeline!\nYour friend says: Oh, I think its D!");

Scanner swwwc = new Scanner(System.in);

System.out.print("Ans : ");

ans3= swwwc.next();

switch(ans3.toLowerCase()) {

case "a":

System.out.println("Incorrect\n\nExplanation:\nOption A is wrong because it initializes an int array with String literals.");

break;

case "b":

System.out.println("Incorrect\n\nExplanation:\nOption B is wrong because it use something other than curly braces for the initialization");

break;

case "c":

System.out.println("Incorrect\n\nExplanation:\nOption C is wrong because it provides initial values for only one dimension, although the declared array is a two-dimensional array.");

break;

case "d":

System.out.println("Correct\n");

count++;

System.out.println("Explanation:\nThe only legal array declaration and assignment statement is Option D");

break;

default:

System.out.println("Invalid Input");

}

break;

default:

System.out.println("Invalid Input");

}

}

System.out.println("\nCurrent score is : "+count);

System.out.print("————————————————————————————————————————————————————————————————————————————————————————————————————————————————————————");

System.out.println("\n3. " +"Which is a valid keyword in java?");

System.out.println("a. interface\n" +

"b. string\n" +

"c. Float\n" +

"d. unsigned"+"\n\nLifelines are :"+

"\n1. 50/50 \n" +

"2. Poll the audience \n" +

"3. Call a friend");

System.out.print("Ans : ");

Scanner sc1 = new Scanner(System.in);

anss= sc1.nextLine();

if (!anss.matches("[a-zA-Z1-3]+")) {

System.out.println("Invalid Expression");

}

else {

switch(anss.toLowerCase()) {

case "a":

System.out.println("Correct\n");

count++;

System.out.println("Explanation:\nInterface is a valid keyword.");

break;

case "b":

System.out.println("Incorrect\n\nExplanation:\nOption B is wrong because although \"String\" is a class type in Java, \"string\" is not a keyword.");

break;

case "c":

System.out.println("Incorrect\n\nExplanation:\nOption C is wrong because \"Float\" is a class type.\nThe keyword for the Java primitive is float.");

break;

case "d":

System.out.println("Incorrect\n\nExplanation:\nOption D is wrong because \"unsigned\" is a keyword in C/C++ but not in Java.");

break;

case "1":

System.out.println("\nYou chose the 50/50 lifeline!\nYour choices are now between: \na.interface\nb.string");

Scanner swc = new Scanner(System.in);

System.out.print("Ans : ");

ans1= swc.next();

if(ans1.equals("a")||ans1.equals("A"))

{

System.out.println("Correct\n");

count++;

System.out.println("Explanation:\nInterface is a valid keyword.");

break;

}

else if(ans1.equals("b")||ans1.equals("B"))

{

System.out.println("Incorrect\n\nExplanation:\nOption B is wrong because although \"String\" is a class type in Java, \"string\" is not a keyword.");

break;

}

else {System.out.println("Invalid Input");break;}

case "2":

System.out.println("\nYou chose poll the audience lifeline!\n" +

"The audience, out of 100 people said: \n"+

" a. 65%\n b. 25%\n c. 4%\n d. 6%\n");

Scanner swwc1 = new Scanner(System.in);

System.out.print("Ans : ");

ans1= swwc1.next();

switch(ans1.toLowerCase()) {

case "a":

System.out.println("Correct\n");

count++;

System.out.println("Explanation:\nInterface is a valid keyword.");

break;

case "b":

System.out.println("Incorrect\n\nExplanation:\nOption B is wrong because although \"String\" is a class type in Java, \"string\" is not a keyword.");

break;

case "c":

System.out.println("Incorrect\n\nExplanation:\nOption C is wrong because \"Float\" is a class type.\nThe keyword for the Java primitive is float.");

break;

case "d":

System.out.println("Incorrect\n\nExplanation:\nOption D is wrong because \"unsigned\" is a keyword in C/C++ but not in Java.");

break;

default:

System.out.println("Invalid Input");

}

break;

case "3":

System.out.println("\nYou chose the call a friend lifeline!\nYour friend says: Oh, I think its A!");

Scanner swwwc1 = new Scanner(System.in);

System.out.print("Ans : ");

ans1= swwwc1.next();

switch(ans1.toLowerCase()) {

case "a":

System.out.println("Correct\n");

count++;

System.out.println("Explanation:\nInterface is a valid keyword.");

break;

case "b":

System.out.println("Incorrect\n\nExplanation:\nOption B is wrong because although \"String\" is a class type in Java, \"string\" is not a keyword.");

break;

case "c":

System.out.println("Incorrect\n\nExplanation:\nOption C is wrong because \"Float\" is a class type.\nThe keyword for the Java primitive is float.");

break;

case "d":

System.out.println("Incorrect\n\nExplanation:\nOption D is wrong because \"unsigned\" is a keyword in C/C++ but not in Java.");

break;

default:

System.out.println("Invalid Input");

}

break;

default:

System.out.println("Invalid Input");

}

}

System.out.println("\nCurrent score is : "+count);

}

else {System.out.println("Invalid Name.");

}

System.out.print("————————————————————————————————————————————————————————————————————————————————————————————————————————————————————————");

System.out.println("\nDo you want to re-take the quiz?\n");

String ch;

Scanner qq = new Scanner(System.in);

System.out.print("(Type Yes or No) : ");

ans10= qq.next();

}while((ans10.toLowerCase()).equals("yes"));

System.out.println(name+", thank you! Your total score is : "+count);

}

}

*OUTPUT:*

CASE 1:

What is your first name?

abc

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Welcome to Who Wants to be a Millionaire! As I'm sure you know, you will have to answer 3 questions correctly.

And you have 3 lifelines to work with:

1. 50/50

2. Poll the audience

3. Ask a friend

So abc lets begin! You have a chance to win ONE MILLION RUPEES!!!

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1. Which one of these lists contains only Java programming language keywords?

a. class, if, void, long, Int, continue

b. goto, instanceof, native, finally, default, throws

c. try, virtual, throw, final, volatile, transient

d. strictfp, constant, super, implements, do

Lifelines are :

1. 50/50

2. Poll the audience

3. Call a friend

Ans : b

Correct

Explanation:

All the words in option B are among the 49 Java keywords.

Although goto reserved as a keyword in Java, goto is not used and has no function.

Current score is : 1

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2. Which will legally declare, construct, and initialize an array?

a. int [] myList = {"1", "2", "3"};

b. int [] myList = (5, 8, 2);

c. int myList [] [] = {4,9,7,0};

d. int myList [] = {4, 3, 7};

Lifelines are :

1. 50/50

2. Poll the audience

3. Call a friend

Ans : d

Correct

Explanation:

The only legal array declaration and assignment statement is Option D

Current score is : 2

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3. Which is a valid keyword in java?

a. interface

b. string

c. Float

d. unsigned

Lifelines are :

1. 50/50

2. Poll the audience

3. Call a friend

Ans : a

Correct

Explanation:

Interface is a valid keyword.

Current score is : 3

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Do you want to re-take the quiz?

(Type Yes or No) : no

abc, thank you! Your total score is : 3

CASE 2:

What is your first name?

xyz

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Welcome to Who Wants to be a Millionaire! As I'm sure you know, you will have to answer 3 questions correctly.

And you have 3 lifelines to work with:

1. 50/50

2. Poll the audience

3. Ask a friend

So xyz lets begin! You have a chance to win ONE MILLION RUPEES!!!

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1. Which one of these lists contains only Java programming language keywords?

a. class, if, void, long, Int, continue

b. goto, instanceof, native, finally, default, throws

c. try, virtual, throw, final, volatile, transient

d. strictfp, constant, super, implements, do

Lifelines are :

1. 50/50

2. Poll the audience

3. Call a friend

Ans : 1

You chose the 50/50 lifeline!

Your choices are now between:

b. goto, instanceof, native, finally, default, throws

d. strictfp, constant, super, implements, do

Ans : d

Incorrect

Explanation:

Option D is wrong because "constant" is not a keyword. Constants in Java are marked static and final.

Current score is : 0

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2. Which will legally declare, construct, and initialize an array?

a. int [] myList = {"1", "2", "3"};

b. int [] myList = (5, 8, 2);

c. int myList [] [] = {4,9,7,0};

d. int myList [] = {4, 3, 7};

Lifelines are :

1. 50/50

2. Poll the audience

3. Call a friend

Ans : 2

You chose poll the audience lifeline!

The audience, out of 100 people said:

a. 4%

b. 6%

c. 12%

d. 78%

Ans : uu

Invalid Input

Current score is : 0

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3. Which is a valid keyword in java?

a. interface

b. string

c. Float

d. unsigned

Lifelines are :

1. 50/50

2. Poll the audience

3. Call a friend

Ans : 3

You chose the call a friend lifeline!

Your friend says: Oh, I think its A!

Ans : a

Correct

Explanation:

Interface is a valid keyword.

Current score is : 1

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Do you want to re-take the quiz?

(Type Yes or No) : yes

What is your first name?