# Objectives

Practice working with arrays

# Problem

Write a program to play a simple trivia game. The game should have five questions. Each question has a corresponding answer and point value between 1 and 3 based on the difficulty of the question. Implement the game using three arrays. An array of String holds the questions, an array of String holds the answers and an array of int holds the points for each question. All three arrays should be declared with the exact same size depending on the number of the questions that you want to have in this game.

# Requirements

* Must satisfy the rubric for the assignment to get the full credit
* Must include comments throughout the code
* You must create your own question and answers
* Prompt the user to answer each of the question in the array
* If the user’s answer is correct, add the point for this question to the total points, otherwise display a message that the answer is not correct and display the correct answer.
* After asking all the questions, display the score
* Ask if there is another person want to play.

# Class constant

declare a class constant name **SIZE** to store the number of the questions in the game. Set the SIZE to 5

# Required methods

**public static void main (String[] args)** : this method calls the run method

**public static void run ():** This method does the following

create a scanner object

declare an array of string of size SIZE(class constant), this array will hold the questions

declare an array of String with the size SIZE, this array holds the answer to each question.

Declare an array of int with the size SIZE, to hold the points for each question

Call the method initialize and pass the three arrays that you declared to it.

Declare a Boolean variable called more and set it to tru

While(more){

Call the method play

Display the score

Ask if there is another person wanting to play the same

Update the variable more

}end while

End method

**Public static void initialize (String[] question, String answers, int[] values):** this method manually fills in the array. No for loop should be used. For example, to fill in the first question, you need to do the following 5 times to fill in all three arrays of questions, answers, and points

questions[0] = "The first Pokemon that Ash receives from Professor Oak";  
answers[0] = "pikachu";

values[0] = 1;

**public static int play(String[] questions, String[] answers, int[] values):** this method does the followings

declare a variable called score and set it to zero

use a for loop{

to display each question

prompt the user to enter the answer

convert the user’s answer to lower case

compare the user’s answer with the answer stored in the array that holds the answers

if the user is correct, add the value of the question to the score, if the user is not correct display a message, and display the correct answer

}End for loop

Return the variable score

End of play method

# Sample output

Question 1

The first Pokemon that Ash receives from Professor Oak? pikachu

That is correct!

Question 2

Erling Kagge skiied into here alone on January 7, 1993? south pole

That is correct!

Question 3

1997 British band that produced 'Tub Thumper'? chumb

Wrong. The correct answer is chumbawumba

Question 4

Who is the tallest person on record (8 ft. 11 in) that has lived?? robert waldon

Wrong. The correct answer is Robert Wadlow

Question 5

PT Barnum said 'This way to the \_\_\_\_\_\_\_' to attract people to the exit.? egress

That is correct!

Your score is : 4

Is there another person?

yes

Question 1

The first Pokemon that Ash receives from Professor Oak? pikachu

That is correct!

Question 2

Erling Kagge skiied into here alone on January 7, 1993? south pole

That is correct!

Question 3

1997 British band that produced 'Tub Thumper'? chumbawumba

That is correct!

Question 4

Who is the tallest person on record (8 ft. 11 in) that has lived?? Robert Lu

Wrong. The correct answer is Robert Wadlow

Question 5

PT Barnum said 'This way to the \_\_\_\_\_\_\_' to attract people to the exit.? egress

That is correct!

Your score is : 6

Is there another person?

no