**Code:**

import java.util.Scanner;

import java.util.Random;

class Main {

public static void main(String[] args) {

System.out.println();

System.out.println("Ypres Salient, West Flanders, Belgium.");

System.out.println("Tuesday, August 14th, 1917.");

System.out.println();

System.out.println("How many shells do you wish to fire?");

Scanner scanner = new Scanner(System.in);

int shells = scanner.nextInt();

System.out.println("Preparing to fire " + shells + " shells at entrenched enemy positions.");

System.out.println();

int hit = 0;

int miss = 0;

for(int i = 1; i <= shells; i++) {

Random random = new Random();

int upperbound = 2;

int int\_random = random.nextInt(upperbound);

System.out.println("Fire!");

if (int\_random == 0) {

System.out.println("Confirmed hit on enemy positions.");

System.out.println();

hit++;

} else {

System.out.println("Missed enemy positions.");

System.out.println();

miss++;

}

}

System.out.println();

System.out.println("All " + shells + " shells fired.");

System.out.println();

System.out.println("Confirmed hits: " + hit + ".");

System.out.println("Misses: " + miss + ".");

double accuracy = ((double) hit / (double) shells) \* 100;

System.out.println("Accuracy: " + accuracy + "%.");

System.out.println();

if (accuracy <= 33.3) {

System.out.println("Spotters report that the barrage missed, failing to adequately soften enemy fortficiations.");

System.out.println("An offensive cannot be mounted without suffering heavy casualties. Recalibrate the guns and try again.");

} else if (accuracy >= 66.6) {

System.out.println("Success! Spotters report the barrage inflicted heavy casualties on the enemy, shattering their entrenched lines.");

System.out.println("Conditions are favourable for an offensive on ememy positions. Begin preperations immediately!");

} else {

System.out.println("Spotters report the barrage inflicted limited casualties on the ememy, but their entrenched positions remain largely intact.");

System.out.println("An offensive cannot be mounted without suffering higher–than–anticipated casualties. Recalibrate the guns and try again.");

}

}

}

**Explanation:**

– Line #1 imports the ‘Random’ function.

– Line #2 imports the ‘Scanner’ function.

– Line #11 creates a new scanner called ‘scanner’.

– Line #12 creates the int variable ‘shells’, defined as the scanner input.

– Line #16 creates the int variable ‘hit’ with a value of 0.

– Line #17 creates the int variable ‘miss’ with a value of 0.

– Line #18 creates the ‘for’ loop:

( A: int ‘I’ is defined as 1,

B: while ‘I’ is less than or equal to ‘shells’,

C: increase the value of ‘I’ by 1.

This loop will repeat a number of times equal to the user input.

– Line #19 creates a new random number generator called ‘random’.

– Line #20 creates an int called ‘upperbound’ with a value of 3.

– Line #21 creates an int called ‘int\_random’. It is randomised using the ‘random’ random number generator and the upper limit is set to 2 using the ‘upperbound’ variable. This will generate a random number, either a 0 or 1.

– Line #23 is an ‘if’ statement, nested within the ‘for’ loop. If ‘int\_random’ is 0, then a hit is registered, and the value of the variable ‘hit’ is increased by 1. If not, a miss is registered, and the value of the variable ‘miss’ is increased by 1.

**Note:** The variables defined *within* a loop are ‘local’ variables, meaning they refresh every time the loop is triggered. In this case, the variable ‘int\_random’ refreshes each loop.

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– Lines #35 to #50 print the results the round, working out the accuracy percentage by dividing the number of hits by the number of shots, then multiplying by 100. Depending on the value of the accuracy variable, a different response will be printed to determine the outcome of the round.