Describe the for loop and compare with the for-each loop by describing the operation of each and discussing how they differ from each other. You must include the role of enums in your description and provide an example of a for loop and a for-each loop.

The for loop; is similar to a while loop, but essentially specified the iteration in the condition statement / parenthesis (). It is a condensed version. It has in these () a initialization (the variable defined outside of a while loop for the same purpose), the continuation-condition, and an update statement (usually the increment).

Example: 60 second countdown timer

for (time = 60; time >= 0; time--) {

System.out.println(minutes);

}

The for-each loop; is a special type of loop used typically for arrays. It is designed to iterate through and process all of the values in the array.

Example:

for (type var : array) {

statements using var;

}

Enums are an enumerated type. It is used to create new class types, where the class type name is specified along with a list of enum values that comprise the list. Thee values in the enum are constants. How they relate to for loops? Well, a for each loop could be composed that takes in the enum and iterates over its contents, each time executing the statement in the loop.