Exercise 2

1.Analyze the following code?  
  interestRate = 0.05  
 interest = interestrate \* 45

 A. The code miss semicolon at the end of the statement.

 B. interestRate is not defined.

 C. interestrate is not defined.

 D. interest is not defined.

2. of the following expression results in a value 1?

A. 2 % 1

B. 15 % 4

C. 25 % 5  
D. 37 % 6

3. Translate the following algorithm into Python code:

Step 2.1: Use a variable named miles with initial value 100.

Step 2.2: Multiply miles by 1.609 and assign it to a variable named kilometers.

Step 2.3: Display the value of kilometers.

4. Write a program that reads the subtotal and the gratuity rate and computes the gratuity and total. For example, if the user enters 10 for the subtotal and 15% for the gratuity rate, the program displays 1.5 as the gratuity and 11.5 as the total.

(Formula: gratuity = subtotal\*rate/100, total = subtotal + gratuity)

Sample run:

Enter the subtotal: 100.57

Enter the gratuity rate: 15

The gratuity is 15.08 and total is 115.65