**Assignment 2**

Q1. In a right

triangle, the square of the length of one side is equal to the sum of the squares of the length of the other two sides. Write a pseudo-code that takes in lengths of the three sides of a triangle, and then outputs whether the triangle is right or not.

Input length1, length2, length3

if (length1\*length1 == length2\*length2 + length3\*length3)

Print “Right Triangle”

elseif (length2\*length2 == length1\*length1 + length3\*length3)

Print “Right Triangle”

elseif (length3\*length3 == length1\*length1 + length2\*length2)

Print “Right Triangle”

Else

Print “Not a right triangle”

Q2. Write a pseudo-code that takes in a number as input and prints whether it is negative, positive or zero.

Input number

If (number > 0)

Print “positive number”

Elseif (number < 0)

Print “negative number”

Else

Print “The number is zero”

Q3. Write a pseudo-code that takes in as input the number of units used by the consumer, and prints the total cost of electricity according to the given condition:

For first 110 units, the rate is Rs. 0.50/unit

For next 90 units, the rate is Rs. 0.80/unit

For unit above 200, the rate gets raised to Rs. 1.50/unit

Input units

bill = 1

if(unit <= 110)

if(unit >= 0)

bill = unit \* 0.5

print “your bill is: ” bill

else

print “enter units again.”

elseif(unit > 110)

if(unit <= 200)

bill = 110\*0.5 + ((unit - 110)\*0.8)

print “your bill is: ” bill

else

bill = 110\*0.5 + 90\*0.8 + ((unit – 200)\*1.5)

print “your bill is: ” bill