# TUTORIAL 4

1)

The comparison operator in the condition should be == instead of =. == is used for equality comparison, while = is used for assignment.

The statements inside the if block and else block should be enclosed in curly braces {} to form a compound statement. Without curly braces, only the first statement after the if/else is considered part of the block.

The closing parenthesis for the condition is missing. It should be numNeighbors == 4).

2)

No, I'm here!

No, actually, I'm here!

3)

4)

(1) if (taxCode == 'T') { price += price \* (taxRate / 100);

} (2)

if (opCode == 1) { double X, Y; printf("Enter the value for X: "); scanf("%lf", &X);

printf("Enter the value for Y: "); scanf("%lf", &Y); double sum = X + Y; printf("Sum: %lf\n", sum);

} (3)

if (currentNumber % 2 != 0) { currentNumber = 3 \* currentNumber + 1;

} else {

currentNumber = currentNumber / 2;

} (4)

bool leapYear; if ((year % 4 == 0) && ((year % 100 != 0) || (year % 400 == 0))) { leapYear = true; } else { leapYear = false;

} (5)

double cost; if (distance <= 100) { cost = 5.00; } else if (distance <= 500) { cost = 8.00; } else if (distance < 1000) { cost = 10.00;

} else {

cost = 12.00;

}