

C LANGUAGE TUTORIAL 04

Answers

1. error 01: expected '(' before 'numNeighbors'
error 02: 'numNeighbors' underclared (first use in this function)
error 03: 'else' without a previous 'if'

2. No, IÆm here!
No, actually, IÆm here!

```
3. if (doesSignificantWork) {  
    nobelPrizeCandidate = makesBreakthrough;  
}  
else {  
    nobelPrizeCandidate = false;  
}
```

```
4.(a) if (taxCode == 'T')  
    price += price * taxRate / 100.0;
```

```
(b) if (opCode == 1) {
```

```
double X, Y;
printf("Enter the value of X: ");
scanf("%lf", &X);
printf("Enter the value of Y: ");
scanf("%lf", &Y);
double sum = X + Y;
printf("Sum of X and Y is: %.2lf\n", sum);
}
```

```
(c) if (currentNumber % 2 != 0) {
    currentNumber = 3 * currentNumber + 1;
} else {
    currentNumber = currentNumber / 2;
}
```

```
(d) bool leapYear = false;
if (year % 4 == 0) {
    if (year % 100 == 0) {
        if (year % 400 == 0) {
            leapYear = true;
        }
    }
} else{
```

(e) double cost;

if (distance >= 0 && distance <= 100) {

cost = 5.00;

} else if (distance > 100 && distance <= 500) {

cost = 8.00;

} else if (distance > 500 && distance < 1000) {

cost = 10.00;

} else if (distance >= 1000) {

cost = 12.00;

} else {

}

leapYear = true;

}