CSC 1051 - Lab 3

Objectives:
Get some practice with algorithms that use conditional logic and writing programs with if-else statements.

Assignment:

0. Working with a classmate, construct an algorithm for determining the largest of three numbers, a, b, c. The largest of the three values should be assigned to the variable max. Write your algorithm below.
1. Create an application called Vacation that prompts for and reads in, as an integer, how old someone is and then suggests a vacation destination. One of three destinations should be suggested depending on whether the answer is less than 20, between 20 and 50, or over 50. For example a run of the program might look like this:

```
How old is the traveler > 18
You should consider Hershey Park and the surrounding area.
Enter 1 to continue, 0 to quit > 1
How old is the traveler > 38
Try Aspen. The skiing is fantastic.
```

a) Write your algorithm below:

b) Please demonstrate your program ___________________
2. Create an application that will read in a positive integer in the range 1-50 from the user, and print out whether it is divisible by 2, 3, 5, or 7.

For example a run of the program might look like this:

Enter a positive number in the range 1-50 > 18

18 is divisible by the following prime numbers: 2, 3.

or like this:

Enter a positive number in the range 1-50 > 53

Input out of range.

a) Write your algorithm below:

b) Please demonstrate your program _________________________