Practice 7 – Decision Making 1

Task 01: Write missing code, such that output of last print statement should be in order:

```
x1 = randint(1,1000)
x2 = randint(1,1000)
x3 = randint(1,1000)
print (x1, x2, x3)      #numbers may be in order or out of order
#write if-else logic here


print (x1, x2, x3)      #numbers should be in order
```

Sample Run:

```
Numbers before condition: 23        459         169
Numbers after condition: 23         169         459

Numbers before condition: 823       459         669
Numbers after condition:459         669         823

Numbers before condition: 323       159         669
Numbers after condition:159         323         669
```

Task 02: Extend task 1 for four values?

Task 03: Complete program, check and print, whether numbers are in order or not:

```
x1 = randint(1,1000)
x2 = randint(1,1000)
x3 = randint(1,1000)
print (x1, x2, x3)      #numbers may be in order or out of order
#complete the program
```

Sample Run:

```
Numbers: 23       459         169
Numbers are not in order

Numbers: 823            459         669
Numbers are not in order

Numbers: 123            459         669
Numbers are in order
```

Task 04: Input marks of two numbers, check and print 'SAME', 'ALMOST SAME' and 'DIFFERENT'. If both marks are equal, print 'SAME'. If both marks are different but have same grades, print 'ALMOST SAME',otherwise print 'DIFFERENT' [Use grade table shared in practice 6]

Sample Run:

```
Marks 1: 72
Marks 1: 73
ALMOST SAME

Marks 1: 73
Marks 1: 73
SAME

Marks 1: 72
Marks 1: 77
DIFFERENT
```

Task 05: Input a number, check and print messages (see sample runs carefully for understanding):

Sample Runs:

```
Number: 16
Number is divisible by 2 only

Number: 9
Number is divisible by 3 only

Number: 18
Number is divisible by both by 2 and 3

Number: 15
Number is divisible by by both 5 and 3

Number: 63
Number is divisible by by both 3 and 7

Check for 2, 3, 5, and 7.
```