Boolean/Conditional Statements Exercise

- Write a Ruby program to check three given integers (a:smallest,b,c:largest) and return true if the three values are equally spaced, so the difference between a and b is the same as the difference between b and c.

```
a = 1
b = 2
c = 3
if (a-b) == (b-c)
  puts "same"
end
```

- Write a Ruby program to check three given integers a, b, c and return true if one of b or c is close (difference out of a by at most 1), while the other is far, difference from both other values by 3 or more.

```
a = 1
b = 2
c = 3
if (c-b) == 1
  puts "true"
end
if not (c-a) == 1
  puts "far"
end
```

- Write a Ruby program to check two given integers, each in the range 10..99, return true if there is a digit that appears in both numbers.

- Write a Ruby program to check two given integers and return true if either one is 11 or their sum or difference is 11 otherwise return false.

```
a = 11
b = 2
if (a == 11 || b == 11) || (a+b == 11 || a-b == 11)
  puts "true"
else
  puts "false"
end
```

- Write a Ruby program to check whether 2 strings start and end with different letters and both of them doesn’t include letter “x”.

```
 a = "reem"
b = "bayader"
if {(a.start_with?(a[0]) != b.start_with?(b[0])) && (a.end_with?(a[a.length()-1]) != b.end_with?(b[b.length()-1]))} && (a.include? "x" && b.include? "x")
```

```
 puts "t"
end
```

- Write a Ruby program that checks whether a string contains a vowel.

```
    arr = ["A", "E", "I", "O", "U", "Y", "W"]
    for i in arr do
        if s1.upcase.include? i
            p true
        end
```

- Write a Ruby program that keeps getting an integer at the console less than 100 score from the user, and exists when he inserts -1.
If he inserted a number out of range, print the message :”Please insert a score from 0 to
100”.
Your program shall print out the corresponding evaluation as follows:
0-49:fail.
50-60:pass
60-70:good
70-80:very good
80-90:excellent
90-100:incredible

```
p "enter your score"
input = gets.chomp
if (input >= 0) && (input <= 100)
 case input
 when  0..49
  p "fail"
 when 50..59
  p "pass"
 when  60..69
  p "good"
 when  70..79
  p "very good"
 when  80..89
  p "excellent"
 when  90..100
  p "incridable"
 end
else
  p "error"
end
```