

# Selection R&R

## Task 1:

Expression	Symbol description	Result
2 == 4	<i>equals</i>	False
5 > 3	<i>greater than</i>	'True'
4 >= 4	<i>*greater than or equal to</i>	'True'
3 < 2	<i>less than</i>	'Fluse'
7 <= 7	<i>less than or equal to</i>	'True'
8 != 9	<i>not equal to</i>	'True'

## Task 2:

Expression	Symbol description	Result
test_score == 50	<i>equals</i>	False
test_score > 40	<i>greater than</i>	'True'
test_score >= 60	<i>greater than or equal to</i>	'False'
test_score < 40	<i>less than</i>	'False'
50 <= test_score	<i>less than or equal to</i>	'True'
56 != test_score	<i>not equal to</i>	'False'

## Task 3:

### Expression Result

True and True	True
True and False	'False'
False and True	'False'
False and False	'False'
True or True	'True'
True or False	'True'
False or True	'True'
False or False	'False'
not(True)	'False'
not(False)	'True'

### Operator When it evaluates to True

and	<i>multiply</i>
or	<i>one true is needed</i>

## Task 4:

### answer

*If the test score is more than or equal to 50, it is a pass. If the test score is less than 50, it is a fail*

## Task 5.1:

```
age = int(input("Please enter your name: "))
```

```
if age >= 18:
```

```
    print("You are old enough to vote.")
```

```
else: print("You are too young to vote.")
```

```
retirement = 65 - age
```

```
if retirement >= 65:
```

```
    print("You are old enough to retire")
```

```
else: print("you are not old enough to retire. You have {0} years til you are  
able to retire".format(retirement))
```

### The successful program is as shown:

Please enter your name: 18

You are old enough to vote.

you are not old enough to retire. You have 47 years til you are able to retire.

## Task 5.2 (a):

```
number = int(input("Please enter a number: "))
```

```
if number >= 1: print("This number is within range ")
```

```
else: print("This number is too low ")
```

```
if number <= 20: print("This number is within range ")
```

```
else: print("this number is too high ")
```

### The sucessful program is:

Please enter a number: 16

This number is within range

This number is within range

## Task 5.2 (b):

```
team1 = input("Please enter the name of a football team: ")
team2 = input("please enter the name of another football team: ")
team1_score = int(input("Please enter the sore of the first team: "))
team2_score = int(input("Please enter the score of the secound team: "))
if team1_score > team2_score: print("{0} won, therefore gains 3 points
".format(team1))
elif team1_score == team2_score: print("The teams drew, therefore gains 1
point ")
elif team1_score < team2_score: print("{0} won, therefore gains 0 points
".format(team2))
```

### The successful program is:

```
Please enter the name of a football team: Man U
please enter the name of another football team:
Burnley Please enter the sore of the first team: 8
Please enter the score of the secound team: 1
Man U won, therefore gains 3 points
```

```
=====
RESTART
=====
```

```
Please enter the name of a football team: Man U
please enter the name of another football team:
Swansea Please enter the sore of the first team:
4 Please enter the score of the secound team: 4
The teams drew, therefore gains 1 point
```

```
=====
RESTART
=====
```

```
Please enter the name of a football team: Man U
please enter the name of another football team:
Man City Please enter the sore of the first team:
1 Please enter the score of the secound team: 3
Man U lost, therefore gains 0 points
```