## <u>COSC2531 – Programming fundamentals – Assignment 1 – s3615000</u>

## **Answers ONLY**

## Question 1

• if (!(x == 30 && y == 10))

Х	Υ	X && Y	!(X&&Y)
Т	Т	Т	F
Т	F	F	Т
F	Т	F	Т
F	F	F	Т

• *if* (*x* != 30 | | *y* != 10)

Х	Υ	X && Y	!(X&&Y)	!X	!Y	(!X  !Y)
Т	Т	Т	F	F	F	F
Т	F	F	Т	F	Т	Т
F	Т	F	Т	Т	F	Т
F	F	F	Т /	Т	Т	\т/

• As the truth table If (x != 30 | | y != 10) is equal to If (!(x == 30 && y == 10))

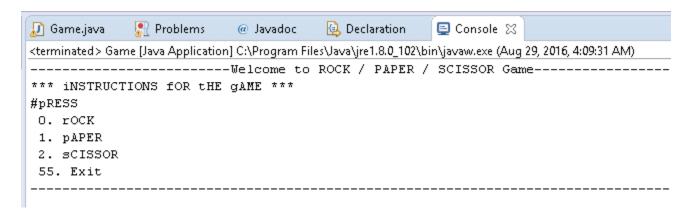
• *if* (x == 30 && (!(y == 10)))

Х	Υ	X && Y	!(X&&Y)	!X	!Y	(!X  !Y)	X&&!Y
Т	Т	Т	F	F	F	F	F
Т	F	F	Т	F	Т	Т	Т
F	Т	F	Т	Т	F	Т	F
F	F	F	Т /	Т	Т	Т	F /

• As the truth table if (x == 30 && (!(y == 10))) is NOT equal to if (!(x == 30 && y == 10))

## Question 2 – Screen shorts of Rock, Paper, Scissors Game

• Game start at Console



```
<terminated > Game [Java Application] C:\Program Files\Java\jre1.8.0_102\bin\javaw.exe (Aug 29, 2016, 4:09:31 AM)
How many rounds you wish to play ?
four
Please enter a number
How many rounds you wish to play ?
70
Please Enter valid number 1 - 30
                                                                                       Error Handling and
How many rounds you wish to play ?
25
                                                                                        Limiting range
Choice your OPTION :
O - RoCK
1 - Paper
2 - ScISSor
55 - Exit
Answer:one
Please Enter a Valid Number :
Choice your OPTION :
O - RoCK
1 - Paper
2 - ScISSor
55 - Exit
Answer:1
Computer is thinking.....
Computer Choice : 1
                                                                                       Game Play
My Choice was : 1
Same item selected
Choice your OPTION :
O - RoCK
1 - Paper
2 - ScISSor
55 - Exit
Answer:4
```

```
Your selection must be (0/1/2) or (55)
Choice your OPTION :
O - RoCK
1 - Paper
2 - ScISSor
55 - Exit
Answer:2
Computer is thinking.....
Computer Choice: 2
My Choice was : 1
Scissors wins: scissors cut paper : Computer win
Choice your OPTION :
O - RoCK
1 - Paper
2 - ScISSor
55 - Exit
Answer:55
Hope you Enjoyed :)
Same item selected
********
Summery - Total Rounds 25
I won (9) Rounds
Computer won ( 10 ) Rounds
********
```

Filtering rang and Results

Exit and summery