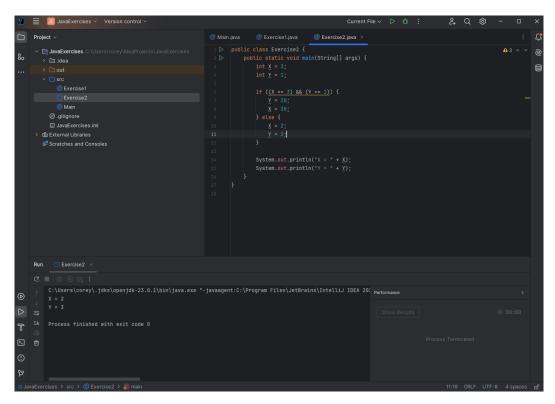


Programme declares X = 52 and Y = 0Since X is not 5, first IF statement is always false, Else statement then declares X = 2 and Y = 3After this X = 4 is declared, Y = 3 remains the same Output is X = 4, Y = 3

Q1.

Q2.



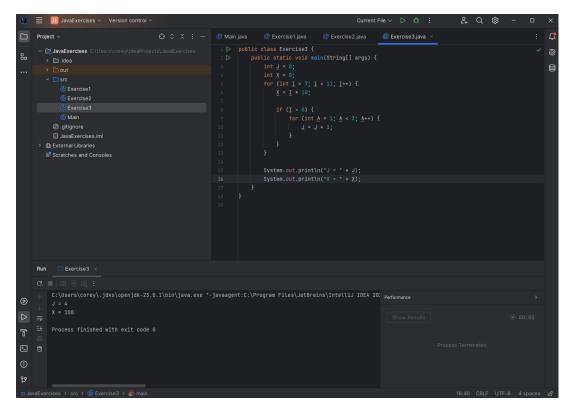
Programme starts with X = 3, Y = 1

First IF statement conditions are not met, so statement is false (doesn't execute)

Else statement declares X = 2 and Y = 3

This is the final values

Q3.



Programme itilalizes J and X as 0

First IF statement conditions are not met so statement is false

Values after first iteration X = 70, J = 0

Second iteration IF statement conditions are not met

Values after this iteration X = 80, J = 0

Third iteration IF statement conditions are met

ELSE block executes the inner loop

Values after this iteration

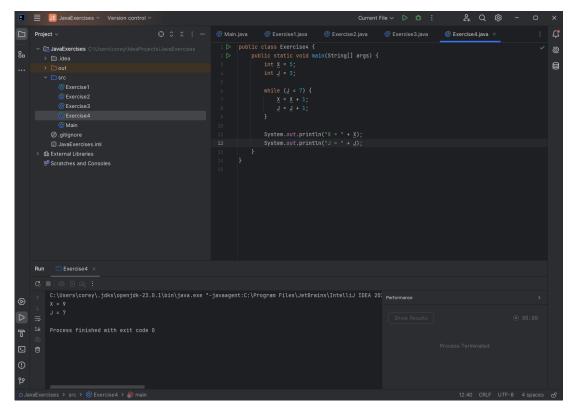
X = 90 J = 2

Fourth iteration IF statement conditions are met

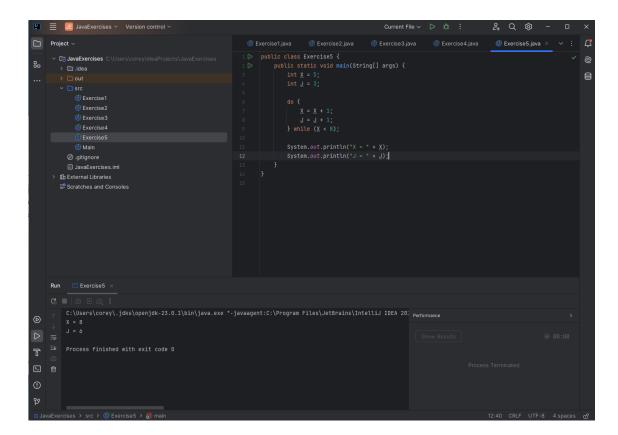
Values after this iteration

X = 100 J = 4

Q4.



Programme initalizes X = 5, J = 3While J is less than 7 (true) X = X + 1 (X = 5 + 1), J = J + 1 (J = 3 + 1) The loop continues until J becomes 7, at which point X = 9, J = 7 Q5.



Programme initalizes X = 5, J = 3

DO loop executes until X = 8

$$X = X + 1 (X = 5 + 1)$$
 $J = J + 1 (J = 3 + 1)$

Final result X = 8, J = 6