A screenshot of a computer

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Q1. Programme declares X = 52 and Y = 0

Since X is not 5, first IF statement is always false,

Else statement then declares X = 2 and Y = 3

After this X = 4 is declared, Y = 3 remains the same

Output is X =4, Y =3

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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

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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

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Q4.

Programme initalizes X = 5, J = 3

While 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

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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