

## 12) Top Company Interview Questions – Conditional Statements

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Disclaimer: When compiling related questions from each lesson, note that not all of them will have answers explicitly mentioned in the material. For such questions, you are encouraged to use ChatGPT and other credible references to find and understand the answers.

1. Grade calculation based on percentage - Write pseudocode to classify marks into Distinction/First/Second/Pass/Fail using a clean if-elif-else (Infosys – 2023)
2. What are common mistakes in conditional checks ?
3. Write Code in Python or Java to Check divisibility of a number by 3 and 5 (Common in: TCS NQT )
4. Write Code in Python or Java to Determine if a triangle is valid based on angles or sides (Common in: Capgemini, Cognizant)
5. Write Code in Python or Java to Determine if a given number is even or odd
6. Write Code in Python or Java to Check whether a year is a leap year (Common in: Cognizant)
7. Write a program which takes a number as input and print whether it is positive even, positive odd, negative even, negative odd, or zero using nested if-else.
8. Write a program which takes Input marks of 3 subjects and prints Pass or Fail. A student passes only if each subject  $\geq 35$  and average  $\geq 50$ .
9. Quadrant Finder -Write a program which takes of Input X, Y coordinates and print which quadrant the point lies in (I, II, III, IV or on an axis) (Common in: Infosys)

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