



Assignment Pseudo-Code

Each question is 5 marks

Answer each question in your own words (No copy paste):

1. Explain variables.
2. Why do you think we use variables?
3. Explain Input/Output.
4. Why do you think we use Input/Output?
5. Explain If statements.
6. Why do you think we use if statements?
7. Explain Loops.
8. Why do you think we use Loops?
9. Explain a for loop vs a while loop.

Solve the problem:

10. Make two variables (Call them A and B) write a Flow chart or Pseudo Code that prints the 4 arithmetic operators
Case 1)

Inputs = 12, 3

Output = $12 + 3$, $12 - 3$, $12 * 3$, $12 / 3$

11. Using inputs and variables, make a flow chart or pseudo code and take in a first name, last name, age, and occupation and print out the data in a fluent sentence

Case1)

Input = Jeff, Bezos, 58, Business owner

Output = Hi! My name is Jeff Bezos, I am 58 and I am a business owner.

12. Using inputs/outputs, variables, and if statements, write a flow chart or Pseudo Code that takes in two integers (A and B) and prints the following:

When both A and B are odd, print their product ($A * B$)

When both A and B are even, print the answer to their division(quotient)(A / B)

When A is odd and B is even, print their sum($A + B$)

When A is even and B is odd, print the answer to subtraction(difference)($A - B$)

Case 1)

Input = 5, 7

Input = 35

Case 2)



ESL

ART

BUSINESS

IT

HOSPITALITY

Input = 12, 2

Input = 6

Case 3)

Input = 5, 6

Input = 11

Case 4)

Input = 12, 3

Input = 9

13. Using inputs/outputs, variables, and loops write a flow chart or Pseudo Code that takes in a user input and prints all the numbers from 1 – 100 while multiplying the user input by the current loop counter:

Input = 3

Output =

"3 x 1 = 3"

"3 x 2 = 6"

"3 x 3 = 9"

"3 x 4 = 12"

... this will repeat till you get to

"3 x 99 = 297"

"3 x 100 = 300"

True and False (Just T or F no explanation):

14. When solving a problem, breaking it down into smaller pieces is a really bad idea.

15. While loops are condition-based loops.

16. A Dimond in a flow chart represents if statements.

17. Pseudo code is actual code that a computer can run and execute.

18. When solving problems, the best way to find a solution is by panicking and getting angry.

19. Outputs are used to take data in and read information.

20. We use loops to repeat process.