

Class: Software Development
Batch: Weekends
Assignment
Submission Date: 28th June 2025

Note: Answers should be written in your note books.

Do not choose the option; kindly attach the answer to the option you choose.

Scenario 1:

Write pseudocode that asks the user to enter a total amount of money and the price of a single item. Calculate and print how many whole items can be bought and the amount of money remaining.

Now, based on this scenario, answer the following questions:

1. What is the purpose of the pseudocode described in the scenario?
 - A. To calculate the total cost of items bought
 - B. To determine how many whole items can be bought and the remaining money
 - C. To find the price of a single item
 - D. To calculate the total amount of money needed to buy items
2. Which mathematical operation is used to calculate the number of whole items that can be bought?
 - A. Addition
 - B. Subtraction
 - C. Division
 - D. Multiplication
3. What is the remainder in the context of the pseudocode?
 - A. The leftover money after buying whole items
 - B. The total amount of money available
 - C. The price of a single item
 - D. The number of items bought
4. If the total amount of money is 5050 and the price of a single item is 77, how many whole items can be bought?
 - A. 6 items
 - B. 7 items
 - C. 8 items
 - D. 5 items
5. If the total amount of money is 5050 and the price of a single item is 77, what is the remaining money after buying whole items?

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- A. 11
- B. 22
- C. 33
- D. 4

Scenario: 3

A program asks the user to enter the number. The program then checks and display if the number is an even number.

Now, based on this scenario, answer the following questions:

6. What is the purpose of the pseudocode described in the refined scenario?
 - A. To calculate the sum of all numbers
 - B. To check whether a number is even
 - C. To find the largest number in a list
 - D. To determine if a number is odd
7. Which mathematical operation is used to determine if a number is even?
 - A. Addition
 - B. Subtraction
 - C. Division
 - D. Modulo
8. What does the result of number \% 2 indicate?
 - A. The number is odd if the result is 0
 - B. The number is even if the result is 0
 - C. The number is prime if the result is 1
 - D. The number is divisible by 3 if the result is 0
9. If the pseudocode checks for even numbers, what would it output for the number 88?
 - A. Odd
 - B. Prime
 - C. Even
 - D. Composite
10. If the pseudocode checks for even numbers, what would it output for the number 1515?
 - A. Odd
 - B. Prime
 - C. Even

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D. Composite

Scenario: 3

A program asks the user to enter the number of pages in a book and the number of pages they can read each day. The program then calculates and prints how many full days it will take to finish reading the book and how many pages will be left unread on the last day (if any).

Now, based on this scenario, answer the following questions:

1. What is the purpose of this pseudocode?
 - A. To determine how many books can be read in a day
 - B. To calculate the number of days needed to finish reading a book
 - C. To find the total number of words in a book
 - D. To suggest reading schedules based on book ratings
2. Which operation is used to calculate how many full days the reading will take?
 - A. Addition
 - B. Division
 - C. Subtraction
 - D. Multiplication
3. What does the remainder represent in the context of this pseudocode?
 - A. The number of unread books
 - B. The total number of days required
 - C. The pages left unread on the final day
 - D. The total time spent reading
4. If the book has 250 pages and the person reads 40 pages per day, how many full days will it take to read?
 - A. 5 days
 - B. 6 days
 - C. 7 days
 - D. 8 days
5. How many pages will be left to read after those full days?
 - A. 10 pages
 - B. 15 pages
 - C. 5 pages
 - D. None
 - E. Correct Answer: 10 pages (250 - 240)