

INFORMATION TECHNOLOGY

Conditional Statement Quiz

ALGORITHM DESIGN - Questions

1. Write a structured algorithm to prompt the user to input the mark a student received in a test. If the mark is less than 60, output the word “Fail”, otherwise output the word “Pass”.

2. Write a structured algorithm that prompts the user to input the pass mark and the mark a student received in a test. Output the word “Fail” or “Pass” accordingly.

3. Write a structured algorithm that prompts the user to input two unequal values that are stored in variables A and B. It should print the higher value.

4. Write a structured algorithm that prompts the user to input two unequal values that are stored in variables A and B. It should print the lower value.

5. Write a structured algorithm that prompts the user to input the weight of a person. If the weight is greater than 75 kg, it should prompt the user to input the name and age, and it should also print the person’s name and age.

6. Write a structured algorithm that instructs the user to input the price and quantity of an item. Calculate the discount amount at 10% of the total if the total is greater than or equal to \$1000.00. Otherwise calculate the discount amount at 5% of the total. Output the total and the discount amount.

7. Write a structured algorithm to input the ages of three students. The algorithm should compare the ages and print the age of the oldest student.

8. A credit union pays 4% interest on shares that are greater than \$25 000.00 and 3% on all other shares. No interest is paid on deposits. Write a structured algorithm that prompts the user to input a share and a deposit. The algorithm should calculate and output the interest amount and the total savings (Total savings = shares + deposit + interest amount).

Do an IPO Chart and the Algorithm for ALL questions.