**TY CSE AY-2024-25 Sem-II**

**Sub: iOS Lab (6CS381)**

**Assignment No 2 Due date- 27/01/2025**

**(Operators and Control flow)**

1. Write a Swift program that contains two integers and calculates the result of addition, subtraction, multiplication, and division.
2. Write a swift program to use compound assignment operators (e.g., +=, -=, \*=, /=) to modify the value of a variable.
3. Write a Swift program that evaluates below expressions using multiple operators and demonstrates how operator precedence and associativity affect the result.
4. (X+Y \* Z)
5. ((X+Y) \* Z)
6. Write a Swift program that takes an Int value and safely converts it to a Double. Then, perform an arithmetic multiplication operation and return the result as a Double.
7. Write a Swift program that takes a Double value, converts it to an Int, and returns the integer part of the number.
8. Write a Swift program that takes an integer and uses an if statement to determine whether the number is even or odd. Display a corresponding message.
9. Write a Swift program that takes a score (0-100) and uses if-else statements to classify the score into grades (A, B, C, D, F). Display the grade as a string.
10. Write a Swift program that checks if a provided username and password match predefined values using if-else. Display a success message if they match and an error message otherwise.
11. Write a Swift program that takes an integer (1 to 7) and uses a switch statement to display the corresponding day of the week (e.g., 1 = "Monday", 2 = "Tuesday", etc.).
12. Write a Swift program that takes three integers and uses if-else to determine and display the largest of the three.
13. Write a Swift program that takes an age and a Boolean indicating citizenship status. Use logical AND (&&) to determine if a person is eligible to vote (e.g., age >= 18 and is a citizen).
14. Write a Swift program that determines if a customer is eligible for a discount. Use logical OR (||) to check if the customer is either a student or a senior citizen.
15. Using below code print the values of ‘isSmallNumber’ and ‘isSpeeding’. What is type of constant? Write using print statement.

let number = 1000

let isSmallNumber = number < 10

let speedLimit = 65

let currentSpeed = 72

let isSpeeding = currentSpeed > speedLimit

1. Implement a Swift program that takes an age as input and uses a switch statement with range cases to classify the age into categories like "Child", "Teenager", "Adult", "Senior".
2. Write a Swift program that takes a string representing the day of the week and uses a switch statement with multiple conditions to identify if it's a weekday or a weekend.

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