**Switch Case Pseudo Code**

**1.Write a pseudo code to print day of week name using switch case.**

BEGIN

// Input: dayNumber (1 to 7)

INPUT dayNumber

// Determine the day of the week using switch-case

SWITCH (dayNumber)

CASE 1:

PRINT "Sunday"

BREAK

CASE 2:

PRINT "Monday"

BREAK

CASE 3:

PRINT "Tuesday"

BREAK

CASE 4:

PRINT "Wednesday"

BREAK

CASE 5:

PRINT "Thursday"

BREAK

CASE 6:

PRINT "Friday"

BREAK

CASE 7:

PRINT "Saturday"

BREAK

DEFAULT:

PRINT "Invalid day number. Please enter a number between 1 and 7."

END SWITCH

END

**2. Write a Pseudo code print total number of days in a month using switch case.**

BEGIN

// Input: monthNumber (1 to 12), year (optional for leap year calculation)

INPUT monthNumber

INPUT year

// Determine the number of days in the month using switch-case

SWITCH (monthNumber)

CASE 1: // January

CASE 3: // March

CASE 5: // May

CASE 7: // July

CASE 8: // August

CASE 10: // October

CASE 12: // December

PRINT "31 days"

BREAK

CASE 4: // April

CASE 6: // June

CASE 9: // September

CASE 11: // November

PRINT "30 days"

BREAK

CASE 2: // February

// Check for leap year

IF ((year MOD 4 = 0 AND year MOD 100 ≠ 0) OR (year MOD 400 = 0)) THEN

PRINT "29 days"

ELSE

PRINT "28 days"

END IF

BREAK

DEFAULT:

PRINT "Invalid month number. Please enter a number between 1 and 12."

END SWITCH

END

**3. Write a Pseudo code to check whether an alphabet is vowel or consonant using switch case.**

BEGIN

// Input: alphabet (a single character)

INPUT alphabet

// Convert the input to lowercase to handle both uppercase and lowercase inputs

alphabet = TO\_LOWER\_CASE(alphabet)

// Determine if the alphabet is a vowel or consonant using switch-case

SWITCH (alphabet)

CASE 'a':

CASE 'e':

CASE 'i':

CASE 'o':

CASE 'u':

PRINT "The alphabet is a vowel."

BREAK

DEFAULT:

// Check if the character is a valid letter

IF (alphabet >= 'a' AND alphabet <= 'z') THEN

PRINT "The alphabet is a consonant."

ELSE

PRINT "Invalid input. Please enter a single alphabet character."

END IF

END SWITCH

END

**4. Write a Pseudo code to find maximum between two numbers using switch case.**

BEGIN

// Input: num1 and num2 (two numbers to compare)

INPUT num1

INPUT num2

// Determine the maximum of num1 and num2 using switch-case

// Calculate the difference between num1 and num2

difference = num1 - num2

// Determine the maximum using switch-case

SWITCH (TRUE)

CASE (difference > 0):

PRINT "The maximum number is: " + num1

BREAK

CASE (difference < 0):

PRINT "The maximum number is: " + num2

BREAK

CASE (difference = 0):

PRINT "Both numbers are equal."

BREAK

DEFAULT:

PRINT "Unexpected error."

END SWITCH

END

**5. Write a Pseudo code to check whether a number is even or odd using switch case.**

BEGIN

// Input: number (an integer to check)

INPUT number

// Calculate the remainder when divided by 2

remainder = number MOD 2

// Determine if the number is even or odd using switch-case

SWITCH (remainder)

CASE 0:

PRINT "The number is even."

BREAK

CASE 1:

PRINT "The number is odd."

BREAK

DEFAULT:

PRINT "Unexpected error."

END SWITCH

END

**6. Write a Pseudo code to check whether a number is positive, negative or zero using switch case.**

BEGIN

// Input: number (an integer to check)

INPUT number

// Determine the sign of the number using switch-case

SWITCH (TRUE)

CASE (number > 0):

PRINT "The number is positive."

BREAK

CASE (number < 0):

PRINT "The number is negative."

BREAK

CASE (number = 0):

PRINT "The number is zero."

BREAK

DEFAULT:

PRINT "Unexpected error."

END SWITCH

END

**7. Write a Pseudo code to create Simple Calculator using switch case.**

BEGIN

// Input: operand1, operand2, and operator

INPUT operand1

INPUT operand2

INPUT operator // This should be one of '+', '-', '\*', '/'

// Perform the calculation based on the operator using switch-case

SWITCH (operator)

CASE '+':

result = operand1 + operand2

PRINT "The result of " + operand1 + " + " + operand2 + " is: " + result

BREAK

CASE '-':

result = operand1 - operand2

PRINT "The result of " + operand1 + " - " + operand2 + " is: " + result

BREAK

CASE '\*':

result = operand1 \* operand2

PRINT "The result of " + operand1 + " \* " + operand2 + " is: " + result

BREAK

CASE '/':

// Check for division by zero

IF (operand2 = 0) THEN

PRINT "Error: Division by zero is not allowed."

ELSE

result = operand1 / operand2

PRINT "The result of " + operand1 + " / " + operand2 + " is: " + result

END IF

BREAK

DEFAULT:

PRINT "Invalid operator. Please enter one of '+', '-', '\*', or '/'."

END SWITCH

END