**Loop Pseudo Code ➖**

**1.** **Write a Pseudo code to print all natural numbers from 1 to n. – using while loop**

START

// Input: n, the upper limit

INPUT n

// Initialize the counter

SET counter = 1

// Loop until the counter exceeds n

WHILE counter <= n DO

// Print the current value of counter

PRINT counter

// Increment the counter

SET counter = counter + 1

END WHILE

END

**2.** **Write a Pseudo code to print all natural numbers in reverse (from n to 1). – using while loop**

START

// Input: n, the upper limit

INPUT n

// Initialize the counter with the value of n

SET counter = n

// Loop until the counter is greater than or equal to 1

WHILE counter >= 1 DO

// Print the current value of counter

PRINT counter

// Decrement the counter

SET counter = counter - 1

END WHILE

END

**3.** **Write a Pseudo code to print all alphabets from a to z. – using while loop**

START

// Initialize the character variable with 'a'

SET char = 'a'

// Loop until the character is greater than 'z'

WHILE char <= 'z' DO

// Print the current character

PRINT char

// Move to the next character

SET char = NEXT\_CHARACTER(char)

END WHILE

END

**4.** **Write a Pseudo code to print all even numbers between 1 to 100. – using while loop**

START

// Initialize the number to the first even number, which is 2

SET number = 2

// Loop until the number exceeds 100

WHILE number <= 100 DO

// Print the current even number

PRINT number

// Move to the next even number

SET number = number + 2

END WHILE

END

**5.** **Write a Pseudo code to print all odd number between 1 to 100. using while loop**

START

// Initialize the number to the first odd number, which is 1

SET number = 1

// Loop until the number exceeds 100

WHILE number <= 100 DO

// Print the current odd number

PRINT number

// Move to the next odd number

SET number = number + 2

END WHILE

END

**6.** **Write a Pseudo code to find sum of all natural numbers between 1 to n. using while loop**

START

// Input: n, the upper limit

INPUT n

// Initialize the counter and the sum

SET counter = 1

SET sum = 0

// Loop until the counter exceeds n

WHILE counter <= n DO

// Add the current counter value to the sum

SET sum = sum + counter

// Increment the counter

SET counter = counter + 1

END WHILE

// Print the result

PRINT sum

END

**7.** **Write a Pseudo code to find sum of all even numbers between 1 to n. using while loop**

START

// Input: n, the upper limit

INPUT n

// Initialize the number to the first even number, which is 2

SET number = 2

// Initialize the sum to 0

SET sum = 0

// Loop until the number exceeds n

WHILE number <= n DO

// Add the current even number to the sum

SET sum = sum + number

// Move to the next even number

SET number = number + 2

END WHILE

// Print the result

PRINT sum

END

**8.** **Write a Pseudo code to find sum of all odd numbers between 1 to n. using while loop**

START

// Input: n, the upper limit

INPUT n

// Initialize the number to the first odd number, which is 1

SET number = 1

// Initialize the sum to 0

SET sum = 0

// Loop until the number exceeds n

WHILE number <= n DO

// Add the current odd number to the sum

SET sum = sum + number

// Move to the next odd number

SET number = number + 2

END WHILE

// Print the result

PRINT sum

END

**9.** **Write a Pseudo code to print multiplication table of any number. using while loop**

START

// Input: num, the number for which to print the multiplication table

INPUT num

// Initialize the multiplier to 1

SET multiplier = 1

// Loop until the multiplier exceeds 10

WHILE multiplier <= 10 DO

// Calculate and print the result of num \* multiplier

SET result = num \* multiplier

PRINT num + " x " + multiplier + " = " + result

// Increment the multiplier

SET multiplier = multiplier + 1

END WHILE

END

**10.** **Write a Pseudo code to count number of digits in a number. using while loop**

START

// Input: num, the number to count digits

INPUT num

// Handle the case where num is 0

IF num = 0 THEN

PRINT 1

END

END IF

// Initialize count to 0

SET count = 0

// Use an absolute value to handle negative numbers

SET num = ABS(num)

// Loop until the number becomes 0

WHILE num > 0 DO

// Remove the last digit from the number

SET num = num / 10

// Increment the digit count

SET count = count + 1

END WHILE

// Print the result

PRINT count

END

**11.** **Write a Pseudo code to find first and last digit of a number. using while loop**

**12.** **Write a Pseudo code to find sum of first and last digit of a number. using while loop**

**13.** **Write a Pseudo code to swap first and last digits of a number. using while loop**

**14.** **Write a Pseudo code to calculate sum of digits of a number. using while loop**

**15.** **Write a Pseudo code to calculate product of digits of a number. using while loop**

**16.** **Write a Pseudo code to enter a number and print its reverse. using while loop**

**17.** **Write a Pseudo code to check whether a number is palindrome or not. using while loop**

**18.** **Write a Pseudo code to find power of a number using for loop. using while loop**

**19.** **Write a Pseudo code to enter a number and print it in words. using while loop**

20. **Write a Pseudo code to print all ASCII character with their values. using while loop**