**LAB TASK 1**:

Read order

CHECK STOCK

SEND ‘NOT AVAILABLE’

NOTIFICATION

Available?

NO

YES

CALCULATE PAYMENT

C

A

Verify payment

A

VERIFIED?

C

NO

YES

DISPLAY CHECKOUT DETAILS

**PSUEDOCODE LAB TASK’S :**

**1.** START

INPUT NUM1

SET remainder TO 0

SET remainder TO NUM1 / 5

IF remainder = 0 THEN

PRINT ‘number is divisible by 5 ‘

ELSE

PRINT ‘ number is not divisible by 5 ‘

END

**2.** START

INPUT letter

IF letter >=A AND letter<=Z THEN

PRINT ‘ the letter is uppercase’

ELSE

PRINT ‘ the letter is lower case ‘

END

**3.** START

INPUT num1

INPUT num2

INPUT operation

SET Answer TO 0

IF operation = ‘\*’ THEN

Answer = num1 \* num2

ELSE

IF operation = ‘+’ THEN

Answer = num1 + num2

PRINT Answer

END

**4.** START

INPUT NUM

IF NUM > 0 THEN

PRINT ‘number is positive ‘

ELSE

IF NUM < 0 THEN

PRINT ‘ number is negetive’

ELSE

PRINT ‘ number is zero’

END

**5.** START

INPUT age

IF age >=13 OR age<=19 THEN

PRINT ‘ person is a teenager ‘

ELSE

PRINT ‘ person is not a teenager’

END

**ALGORITHMS:**

1. Ask user to input a year

If the remainder of year divided by 4 is 0 then year is leap year

If the year is divisible by 100 and 400 then it’s a leap year

Display the answer to user

1. Ask user to input a string

Use For loop from 1 to length of the string

Use mid function to separate a character from string

Count the number of occurrence of each character

Display the total number of characters with the number of occurences

1. . Ask user to input x

. Ask user to input the power

. Set answer to (x \* x)

. Use a count controlled loop to multiply x the number of times required by the power

. display the answer for the user

1. Ask user to input radius of the circle

Set area to (pi \* radius \* radius)

Display area for the user

1. Ask user to input 3 numbers

Use if condition to compare numbers

After comparing sort the numbers in ascending order

The middle number is equal to the median

Display the median to the user