Lab Task 1

B

Input Payment Credentials

True

False

Print “Enter a valid payment method”

Print price

Read Price

False

True

Read input

Is item present in inventory?

Start

Print Item not present

Input Payment method

Is payment method valid?

A

B

Use credentials to transfer price amount in company account

A

Check whether inventory has less than 10 piece

Is amount equivalent to price received?

End

Flag restock

False

True

Deduct 1 from the inventory and flag order pending to vendor

Print order placed

True

False

Lab Task 2

**Q1.**

START   
**// initialization**

SET A to 0   
**// input**  
INPUT Num   
**// processing**  
DIVIDE Num by 5

**// conditions**

IF remainder is 0 THEN

PRINT “It is multiple of 5”

ELSE

PRINT “It is not a multiple of 5”

END

**Q2.**

START

**// input**

INPUT Character   
**// conditions**  
IF “A” <= Character <= “Z” THEN

PRINT “Upper Case”

Else  
 PRINT “Lower Case”

END

**Q3.**

START

**// input**

INPUT Num1

INPUT Num2

INPUT Operator

**// variables and Initialization**

SET Answer to 0

**// conditions**

IF Operator = ‘Add’ THEN

SET Answer to Num1 + Num2

ELSE

SET Answer to Num1 \* Num2

PRINT Answer

END

Q4.

START

**// input**

INPUT Num

**// conditions**

IF Num < 0 THEN

PRINT “Num is Negative”

ELSEIF Num = 0 THEN

PRINT “Num is Zero”

ELSE

PRINT “Num is Positive”

END

Q5.

START

**// input**

INPUT Age

**// conditions**

IF Age > 12 AND Age < 20 THEN

PRINT “Person is Teenager”

ELSE

PRINT “Person is not teenager”

END

Lab Task 3

Q1.

Step1: Ask the user to enter **Year**

Step2: If remainder of Year when divided by 400 is 0 print “It is a leap year”.

Step3: If remainder of Year when divided by 4 is 0 then check remainder of Year when divided by 100 is not zero then print “It is a leap year”. Else print “It is not a leap year”.

Q2.

Step1: Ask the user to enter string

Step2: Ask the user to enter the character which is to be counted.

Step3: Set the counter to zero

Step4: If the character of string is equal to input character, increment counter.

Step5: If the next character of string is not null then perform step 4.

Q3.

Step1: Ask the user to enter base and power.

Step2: Set ans = 1

Step3: Multiply ans and base

Step4: Decrement power

Step5: If power is not equal to 0 perform step 3

Q4.

Step1: Ask the user to enter radius

Step2: Calculate area = pie \*radius\*radius

Step3: Display the area.

Q5.

Step1: Input Num1, Num2, Num3

Step2: Sort in Ascending Order

Step3: Print Middle Number