**FLOWCHART**

A

PAYMENT VERIFIED?

ITEM SELECTED?

PRINT “ORDER CANCELLED”

NO NO

PRINT “PLACE ORDER”

YES

YES

OUTPUT “ORDER PLACED”

IS IT AVAILABLE?

PRINT “NOT AVAILABLE”

NO

END

YES

PRINT “AVAIABLE”

PRINT “PROCEED TO PAYMENT”

VERIFY PAYMENT

A

**LAB TASKS**

**PSEUDOCODE**

**TASK 1**

START

INPUT number

IF number MOD 5 == 0 THEN

PRINT “number is a multiple of 5”

ELSE

PRINT “number is not a multiple of 5”

END

TASK 2

START

INPUT character

IF character >= ‘A’ AND character <= ‘Z’ THEN

PRINT “character in uppercase”

ELSE

IF character >= ‘a’ AND character <= ‘z’ THEN

PRINT “character is lowercase”

ELSE

PRINT “character in not a letter”

END

TASK 3

START

INPUT a

INPUT b

INPUT c

IF c = ‘+’ THEN

PRINT a + b

ELSE

IF c = ‘\*’ THEN

PRINT a \* b

ELSE

PRINT “Invalid”

END

TASK 4

START

INPUT number

IF number > 0 THEN

PRINT “number is positive”

ELSE

IF number < 0 THEN

PRINT “number is negative”

ELSE

PRINT “number is 0”

END

TASK 5

START

INPUT age

IF age > 12 AND age < 20 THEN

PRINT “The person is a teenager”

ELSE

PRINT “the person in not a teenager”

END

**ALGORITHMS**

**LAB TASKS**

**TASK1**

1. Ask the user to enter **year**
2. Set a to **(year/4)**
3. Set b to **(year/100)**
4. Set c to **(year/400)**
5. If a or c is a **whole number** and b is not a whole number, then display ‘this is a leap year’

**TASK2**

1. Ask the user to input a **string**
2. Set occurrence to the number of times a character is **displayed**
3. Display occurrence of each character

**TASK3**

1. Ask the user to enter number **x**
2. Ask the user to enter number **y**
3. Set newnum to x\*x(y times)
4. Display newnum

**TASK 4**

1. Ask the user to enter **radius**
2. Set **Area** to **(3.14\*radius\*radius)**
3. Display Area to the user

**TASK 5**

1. Ask the user to enter **number1**
2. Ask the user to enter **number2**
3. Ask the user to enter **number3**
4. Compare the values and arrange them in **ascending order: smallest, middle, largest**
5. Set median to **middle value**
6. Display median