Is product available?

Read

Product price,customer addrees, contact.no

PRINT “Sorry! Product is not available”

**NO**

**Yes**

PRINT “make the payment and send the screen shot”

Is screenshot received?

**NO**

**YES**

CALC Payment

PRINT “order delivered”

Do want to order any other product?

**YES**

**NO**

**PSEUDO CODES**

**Q1)** Find if the number is multiple of 5.

1. START
2. INPUT NUM
3. IF NUM%5=0, THEN
4. PRINT “number is multiple of 5”
5. ELSE
6. PRINT “number is NOT a multiple of 5
7. END

Q2) Check if character is upper case or lower case

1. START
2. INPUT alpha
3. IF alpha>=A AND alpha<=Z THEN
4. PRINT “Alphabet is uppercase”
5. ELSE
6. PRINT “Alphabet is lowercase”
7. END

Q3) Create a small calculator which only does ‘+’ or ‘\*’ operations.

1. START
2. ANS=0
3. INPUT N1, N2, oper
4. IF oper =’ **+**’ THEN
5. ANS=N1+N2
6. ELSE IF oper=’ **\***’ THEN
7. ANS = N1\*N2
8. ELSE
9. PRINT “INVALID operation “
10. END

Q4) Check whether the given number Is positive, negative or zero.

1. START
2. INPUT NUM
3. IF NUM>0, THEN
4. PRINT “Number is positive”
5. ELSE IF NUM<0, THEN
6. PRINT “Number is negative”
7. ELSE
8. PRINT “Number is ZERO”
9. END

Q5) Determine whether a person is teenager (between 13 and 19 years old).

1. START
2. INPUT age
3. IF age>13 AND age<19 THEN
4. PRINT “TEENAGER’
5. ELSE
6. PRINT” not TEENAGER”
7. END

**ALGORITHMS**

Q1) Implement an algorithm to determine if a given year if leap year.

1. Ask the user to enter the year
2. Check the condition
3. Condition:(year%4=0 AND year%10 ≠ 0) OR year%400= 0
4. IF condition is true then PRINT “leap year” otherwise PRINT “not leap year”

Q2) Implement the algorithm to count the number of occurrences of each character in a given string

1. Ask the user to enter the alphabet of string and save in a variable **occurrence**
2. Use built-in function to count the occurrences of alphabets
3. BUILT-IN FUCNTION: **occurrence** =string.Count[alphabet]
4. PRINT the **occurrence**
5. Repeat the process for every alphabet

Q3) write an algorithm to calculate x raised to the power y without using built-in function

1. Ask the user to input the number **X** and the power **Y**
2. Run **FOR** loop form 1 till **Y**
3. Inside the loop, Run the program **X=X\*X**
4. PRINT value of **X** outside the loop

Q4) Calculate the area of a circle given its radius r

1. Ask the user to enter the radius r
2. Set Area to (3.142\*r\*r)
3. PRINT Area

Q5) Find the median of three given numbers

1. Ask the user to input three numbers and save them in variables M1, M2, M3
2. IF (M1>M2 AND M1<M3) OR (M1>M3 AND M1<M2) then PRINT “M1 is MEDIAN”
3. IF (M2>M1 AND M2<M3) OR (M2>M3 AND M2<M1) then PRINT “M2 is MEDIAN”
4. Else PRINT “M3 is MEDIAN”