Name: Syed Aayan Mahmood  
Roll number: 24K-0642  
  
  
Flowchart Exercise

Q) You are working in an e-commerce company and need to design a flowchart for processing an online  
order. The flowchart should include process modules for each step involved in handling an order and  
decision structures to handle stock availability and payment verification.

Payment verification

Stock availability

Online Order received

Start

Yes

NO

Payment not verified

NO

YES

Read

End

End

Out of Stock

Calculate

Prepare order

Print

Dispatch order

Stop

## PSEUDOCODE Lab Task

### Question-1:

START

// Input

INPUT num1=15  
// variable and initialization

SET answer to integer

// Process Steps

SET answer to num1/5

// Conditional Statements

If answer/5 then

PRINT “The number is divisible by 5”;

else

PRINT “The number is not divisible by 5”;

END

### Question-2:

START

// Input

INPUT letter

// variables and initialization

SET result as 2 sets uppercase and lowercase

// Process steps

Uppercase if lies between A and Z

Lowercase if lies between a and z

// Conditional sentences

If word=Uppercase then

PRINT “Word is in uppercase”;

Else

PRINT “Word is in lowercase”;

END

### Question-3:

START

// Input

INPUT number1

INPUT number2

INPUT add

// variables/initialization

SET add as sum if “+”

// Process Steps

SET sum to number1n add, number2

//Output

Print sum

END

### Question-4:

START

// Input

INPUT number1

// variables and Initialization

SET result to 0

13 // Conditional Statements

If number>0 THEN

PRINT “Number is positive”;

If ELSE number1=0 THEN

PRINT “Number is zero”;

ELSE number1<0 THEN

PRINT “Number is negative”;

18 END

### Question-5:

START

// Input

INPUT age

// Conditional Statements

IF 13<=age<=19 THEN

PRINT “Teenager”;

ELSE

PRINT “Non-teenager”;

END

## ALGORITHMS Lab Taks

### Question-1:

1. Ask the user to input year.
2. If year is divisible by 4 then Yes.
3. If year is divisible by 100 then No.
4. If year is divisible by 400 then Yes.
5. If Yes print “this is a leap year” else print “this is not a leap year”.

### Question-2:

1. Ask user to enter a string.
2. Ask user for a character to find its occurrence.
3. Check the character in string is present and increment by one.
4. Increment till the string ends.
5. Display number of character occurrence.

### Question-3:

1. Ask the user to input value of x.
2. Ask the user to input value of y.
3. SET result to x is multiplied with itself till its power become y.
4. Display result.

Question-4:

1. Ask the user to input radius as r.
2. SET Area to (3.14\*r^2)
3. Display Area.

### Question-5:

1. Ask user to input three numbers as num1, num2 and num3.
2. SET median as the middle number of entered three numbers.
3. Display median.