LAB TASK -1

PROGRAMMING FUNDAMENTALS

Muhammad Furqan Khalil BSE-22F-116

Question #1

Write step by step instructions and draw the flowchart for finding the average of two numbers.

ALGORITHM:

- 1. Read a
- 2. Read b
- 3. avg=(a+b)/2
- 4. Print avg

Question #2

Write a solution and draw the flowchart for finding the area of a rectangle.

ALGORITHM:

- **1.** Read 1
- 2. Read w
- **3.** For Area of a rectangle (area=length*width0) a=l*w
- 4. Print a

Question #3

Read four lengths a, b, c and d and find out whether they 'can' form a valid square.

ALGORITHM:

- 1. Read a
- 2. Read b
- 3. Read c
- 4. Read d
- 5. IF (a==b && b==c && c==d) then, Print Yes ELSE No

Question #4

Input an alphabet (e.g. 'a', 'b, 'c', 'x', 'y', 'z') and display whether the input Alphabet is a vowel (i.e. a, e, i, o, u) or not.

ALGORITHM:

- **1.** Read x
- 2. IF (x=="a" || x=="e" || x=="i" || x=="o" || x=="u" || x=="A" || x=="E" || x=="I" || x=="O" || x=="U)

 Print "yes 'x' is an vowel"

 EISE

 Print "no 'x' is not a vowel"

Question #5

Find whether a number is divisible by 9 or not.

ALGORITHM:

```
1. Read n
```

```
2. IF (n%9==0)
Print "YES 'n' is divisible by 9"
ELSE
Print "NO 'n' is divisible by 9"
```

