PSEUDOCODE

Question:1 Find if the number is multiple of 5.

# **START**

# // Input/Output

Input number1

# // variables and Initialization

Set multiple to 5

# // Process Steps

SET remainder to number1 % multiple

# // Conditional Statements

IF remainder = 0 THEN

PRINT “your number is multiple of 5”

ELSE

PRINT “your number is not a multiple of 5”

**END**

Question:2 Check if a character is uppercase or lowercase.

# // Input/Output

INPUT character

# // Process Steps

SET uppercase to [A,B,C,D,E,F,G,H,I,J,K,L,M,N,O,P,Q,R,S,T,U,V,W,X,Y,Z]

# // Conditional Statements

IF character == uppercase THEN

PRINT “your character is in uppercase”

ELSE

PRINT “your character is in lowercase”

**END**

Question:3 Create a small calculator which only does ‘+’ or ‘\*‘Operations. (Hint: Take three variable inputs with one being used for the operator)

# **START**

# // Input/Output

INPUT number1

INPUT number2

INPUT operation

# // Process Steps

SET number1 (operation) number2

# // Conditional Statements

IF operation = ‘+’ THEN

PRINT “number1 + number2”

ELSE IF operation = ‘\*’ THEN

PRINT “number1 \* number2”

ELSE

PRINT “invalid operation”

**END**

Question:4 Check whether a given number is positive, negative, or zero.

# **START**

# // Input/Output

INPUT number

# // variables and Initialization

SET check to 0

# // Conditional Statements

IF number > check THEN

PRINT “your number is positive”

ELSE IF number < check THEN

PRINT “your number is negative”

ELSE

PRINT “your number is 0”

**END**

Question:5 Determine if a person is a teenager (between 13 and 19 years old).

# **START**

# // Input/Output

INPUT age

# // variables and Initialization

SET range1 to 13

SET range2 to 19

# // Conditional Statements

IF age >= range1 && age<=range2 THEN

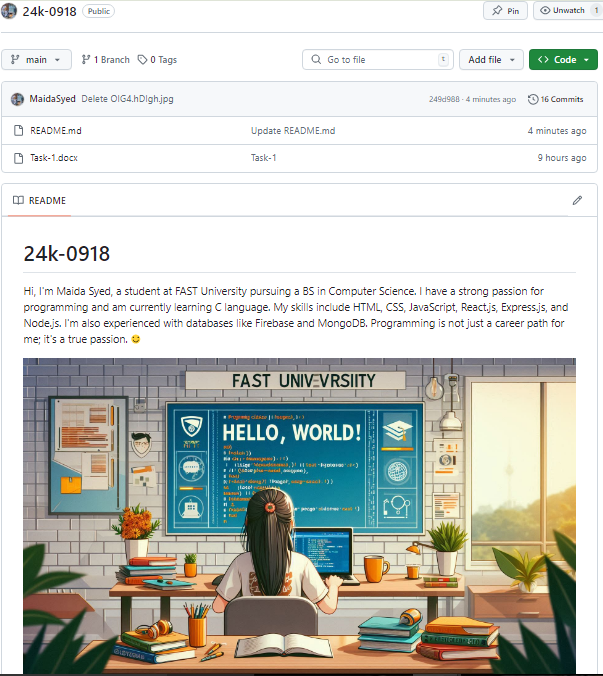
PRINT “you are teenager”

ELSE

PRINT “you are not a teenager”

**END**

GITHUB IMAGE



ALGORITHM

Question:2

1. Ask user to enter string.
2. Break string into each character.
3. Count each character.
4. Store each different character in a different variable.
5. Count repeated character.
6. Store repeatation of character into its variable.
7. Display the number of character and their occurrence to the user.

Question:3

1. Ask user to enter number of base.
2. Ask user to enter number of power.
3. Set base number to “x”.
4. Set power number to “y”.
5. Multiply base to itself by power times.
6. Display result to the user.

Question:4 Calculate the area of a circle given its radius r.

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

Question:5 Find the median of three given numbers.

1. Ask user to enter number-1.
2. Ask user to enter number-2.
3. Ask user to enter number-3.