1Q) Write a pseudocode to determine whether a person is eligible to vote or not given his/her age. the voting eligibility criteria is

that the persons age must be >=18

BEGIN

NUMBER age

DISPLAY "Enter age"

IF age >= 18

DISPLAY "Eligible for Voting! "

ELSE

DISPLAY "NOT Eligible for Voting! "

END IF

END

2Q) Write a Algorithm to determine whether a number is prime number or not

step 1: start

step 2: initialize a variable temp to 0

step 3: iterate a for loop from 2 to num/2

step 4: If num is divisible by loop iterator, then increment temp

step 5: if the temp is equal to 0

return "num is PRIME"

ELSE

return Num is not prime

step 6: end

3Q) write a Pseudocode to reverse the digits of a number

OUTPUT "Please Enter any Number"

INPUT Number

Reverse = 0

While(Number > 0)THEN

Reminder = Number %10

Reverse = (Reverse \*10) + Reminder

Number = Number // 10

END WHILE

OUTPUT "Reverse of entered number is ="+ Reverse

4Q) Write an Algorithm to find the factorial of a given number

Step 1: Start

Step 2: Declare Variable n, fact, i

Step 3: Read number from User

Step 4: Initialize Variable fact=1 and i=1

Step 5: Repeat Until i<=number

5.1 fact=fact\*i

5.2 i=i+1

Step 6: Print fact

Step 7: Stop

5Q) write a pseudo to count the number of vowels in the string CITIUSTECH

TAKE INPUT AS STRING LIKE CITIUSTECH FROM THE USER

INITIALISE A COUNT=0;VOWELS=0;

DECLARE VARIABLES C AND str[CITIUSTECH]

while(str[COUNT] != '\0')

c = str[COUNT];

if(c == 'a' || c == 'A' || c == 'e' || c == 'E' || c == 'i' || c == 'I'

|| c == 'o' || c == 'O' || c == 'u' || c == 'U') {

VOWELS++;

COUNT++

PRINT THE NUMBER OF VOWELS In Given string Are

6Q) Write an algorithm for each pseudocode written in assignment 1,3 and 5

5)set the count to 0

Loop through the string until it reaches a null character.

Compare each character to the vowels a, e, I o, and u.

If both are equal, increase the count by one.

Print the count at the end.

3)Step 1: Start

Step 2: Read number from User

Step 3: Initialize Variable reverse=0;

Step 4: while number is greater than 0

Reminder = Number %10

Reverse = (Reverse \*10) + Reminder

Number = Number // 10

step 5: if number is less than 0 come out of loop

Step 6: Print reverse

Step 7: Stop

1)Step 1: Start

Step 2: Read number from User

Step 3: if number is equal to or gretaer than 18 print eligible for voting

Step 4 :else print not eligible for voting

step 5: end

7Q)

4) PSEUDO CODE FOR FACTORIAL OF A NUMBER

INPUT number

SET factorial := 1, i := 1

WHILE i <= number DO

COMPUTE factorial := factorial \* i

INCREASE i by 1

END LOOP

PRINT factorial

2)PSEUDO CODE FOR Whether a number is prime number or not

INPUT n

i = 2

answer = prime

WHILE i <= n / 2

rem = n % i

IF rem is not equal to 0

i = i + 1

ELSE

answer = not prime

END WHILE LOOP

OUTPUT answer