* DAY 1
* Assignment

1.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 person’s age must be >= 18.

Start

Number age

Display “enter the age”

If age >=18

Display Eligible to Vote

Else

Not eligibility to vote

End

2.Write an algorithm to determine whether a number is a prime number or not.

Step 1: Start

Step2: Enter the number i=2

Step 3: Check the condition if(n/i==0)

Step 4: Flag=1 Number is not prime

Step 5: Flage==0 Number is Prime

Step 6: End

3.Write a pseudocode to reverse the digits of a number.

Start

Declaration Number Reverse Rem=0

Enter the number

WHILE (n! =0)

Rem=n%10

Reverse=reverse\*10+rem

N=n/10

Reverse Number

End

4. Write an algorithm to find the factorial of a given number.

Step 1: Start

Step2: Enter the given number

Step 3: Check the condition

for(i=1; i<=number; I++)

fact=fact\*1

End loop

Step 4: Factorial number Fact

Step 5: End

5.Write a pseudocode to count the number of vowels in the string **CITIUSTECH.**

Start

Given STRING word [10]

count=0, i

STRING word = "CITIUSTECH"

WHILE (word[i]!= null)

IF (word[i] == 'A' || word[i] == 'E' || word[i] == 'I' || word[i] == 'O'

|| word[i] == 'U') || (word[i] == 'a' || word[i] == 'e' || word[i] == 'i' || word[i] == 'o' || word[i] == 'u'))

++count

END

DISPLAY "number of vowels in the word: - " count

END

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

Step 1: Start

Step2: Enter the Age

Step 3: Check the condition if>=18

Step 4: Greater than or equal to 18 eligible to vote

Step 5:<18 not eligible to vot

Step 6: End

Algorithm reverse the digits of a number

Step 1: Start

Step2: Enter the Number

Step 3: Condition WHILE (n! =0)

Rem=n%10

Reverse=reverse\*10+rem

N=n/10

Step 4: Reverse Number

Step 5: End

Algorithm to count the number of vowels in the string **CITIUSTECH.**

Step 1: Start

Step2: Enter the STRING Word

Step 3: To count the vowels Check the condition

WHILE (word[i] != null)

IF ((word[i] == 'A' || word[i] == 'E' || word[i] == 'I' || word[i] == 'O'||

word[i] == 'U') || (word[i] == 'a' || word[i] == 'e' || word[i] == 'i' || word[i] == 'o' || word[i] == 'u'))

Step 4: Increase the count

Step 5: Display the number of Vowles in the given word Count

Step 6: End

7.Write a pseudocode for each algorithm written in assignment 2, 4 and 6.

Start

Input number ,i, m=0, flag=0

Enter the given number to check the prime or not

M=n/2

For(i=2<i<=m;i++)

if(n/i==0)

Flag=1

Break

Number is not prime

If (Flage==0)

Number is Prime

End

Start

Input i ,Fact=1, number

Enter the number

for(i=1; i<=number; i++)

fact=fact\*1

End loop

Factorial of %d, number, Fact

End