1. **Pseudocode to determine whether a person is eligible to vote or not.**

Begin

Age = Input(enter person age)

If Age>=18;

Print(“Person is eligible to Vote”)

Else:

Print(“Person is not eligible for voting)

1. **Algorithm whether a number is prime or not.**

Step 1: start

Step 2: Enter the number

Step 3: If number is less than one or equals 1 display number is not prime.

Step 4: Iterate from 2 to given number i.e (for i in range (2, number))

Step 5: run a if condition: if number%i ==0

Step 6: Display given number is not prime number else go to step 8.

Step 7: Display given number is prime number

Step 8: End.

1. **Reverse the digits of a number (Pseudocode).**

Begin

number = "Enter any Number”

reverse = 0

While (number > 0) then

    Reminder = number%10

    reverse = (reverse \*10) + Reminder

    number = number // 10

End while

Print ("Reverse of entered number is ="+ reverse)

1. **Factorial (Algorithm)**

step 1: Start

step 2: Enter a number n

step 2: Initialize variables: fact= 1

step 3: if i <= n go to step 4 otherwise go to step 7

step 4: Calculate fact = fact \* n

step 5: Increment the i by 1 (i=i+1) and go to step 3

step 6: Print fact

step 7: End

1. **Count the number of vowels in the CITIUTECH.**

Begin

Vowels = “AEIOUaeiou”

Set count = 0

Initialize string str = CITIUSTECH;

For i in str:

Begin

If i in Vowels

count = count +1

display count

end

end

1. **01) Algorithm to determine whether a person is eligible to vote or not.**

Step 1: start

Step 2: input from the user

Step 3: check if age>=18 or not

Step 4: print eligible to vote if step 3 is True

Step 5: else print Not eligible to vote

Step 6: prints the output.

Step 7: End

**03) Reverse the digits of a number(Algorithm).**

Step 1: start

Step 2: input from the user and store in variable

Step 3: set variable reverse = 0 and declare the variable Reminder

Step 4: check for while condition if number > 1 then go to step 5 else exit loop

Step 5: calculate Reminder = Number%10

Step 6: calculate reverse = (reverse\*10)+Reminder

Step 7: Number = Number//10

Step 8: print “reverse of a number is “+Reverse

Step 9: end

**05) Count the number of vowels in the string** **CITIUSTECH(algorithm)**

Step 1: start

Step 2: set the string value “AEIOUaeiou” and store in v variable

Step 3: set count = 0

Step 4: store the string “CITIUSTECH” in a variable

Step 5: Iterate for each value in step 4

Step 6: and if the value matches with the stored value then increase the count

Step 7: Display the count

Step 8: End

1. **02) Check whether the given number is prime or not(Pseudocode).**

Numeric n, a

Print “Enter the number”

If n<=1

Print “It is not a prime number”

else

For a in range(2,n)

Begin

If n%a==0

Print “It is a not a prime number”

Else

Print “It is prime number”

End

**04) Factorial (Pseudocode)**

Begin

n= Enter a number

set fact = 1

while ( n>=1)

fact=fact\*n

n = n-1

end while

print fact

end