**OOPS DAY 1 ASSIGNMENT ANSWERS**

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.

Ans) print(Enter your age)

A=int(input(age))

IF age < 18

Print(not eligible)

ELSE

Print(eligible)

1. Start
2. Take an int input
3. IF age<18
4. Print not eligible
5. ELSE print eligible
6. end

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

Ans) 1. Start

2. Enter a number i greater than 1

3. check if i is in range and check whether its divisible by 2

4. IF its not divisible by 2 and divides by 1 and itself

5. print its prime number

6. ELSE print not a prime

7. end

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

Ans) print(enter required number)

Str=str(num)

Rev=str[ : : -1]

Print(rev)

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

Ans) 1. Start

2. Enter any number n>=2

3. use logic- fact = n\*factorial(n-1)

4. print the output

5. end

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

Ans) print(enter your word)

A=str(input(word))

Cnt=0

For i in string:

If i==’a’ or i==’e’ or i==’I’ or i==’o’ or i==’u’

cnt++

print(output)

6) **voting eligible**

1. Start
2. Take an int input
3. IF age<18
4. Print not eligible
5. ELSE print eligible
6. end

**reverse**

1. start
2. take a string input
3. use slice to reverse the string
4. print output
5. stop

**vowels**

1. start
2. take a string input
3. put count=0
4. define a e I o u
5. print output
6. stop

7) **prime**

n=int(input(enter a number)

For I in range(2, int(n/2)+1)

If (n%I==0)

Print(not prime)

Else

Print(prime)

**Factorial**

N=int(input(enter any number)

If n>=2

Fact=n\*factorial(n-1)

Print(output)