Assignment 1

**Question 1:**

Take age input from user

process the input

if age is greater than or equal to 18

print as eligible for voting

else print not eligible for voting

**Question 2:**

1.Start

2.take number as input

3.Process the input

4.initialise variable count=0

5.iterate for loop from 2 to number/2

5.if(number %i==0)

6. Increment count

7.if count is equal to zero

8.print it is a prime number

9.else print not a prime number

10.stop

**Question 3:**

Enter the number

process the input

declare variable "remainder"

initialize reverse variable to zero

iterate while loop until number is not equal to zero

assign mod 10 of number to remainder

assign reverse\*10+remainder to reverse variable

assign number divided by 10 value to number variable

print reverse number

**Question 4:**

1.Start

2.Get the input from user

3.process the input

4.initialize variable "fact" and "i" to one

5.iterate for loop until i<=number

6.calculate fact=fact\*i

7.end of for loop

7.print the factorial of the number

8.stop

**Question 5:**

initialize vowel is eqaul to "a e I o u A E I O U"

assign String is equal to CITIUSTECH

initialize count is equal to zero

check any vowel is present in String

if yes increment count

print count which is the total number of vowels in String

**Question 6:**

**algorithm for question 1**

step 1:Start

step 2:Get the input from user as age

step 3:Process the input

step 4:if(age>=18)

step 5:output-elligible for voting

step 6:else print not elligible for voting

step 7:stop

**algorithm for question 3**

step 1:start

step 2:get the input

step 3: declare remainder variable

step 4:reverse=0

step 5:while(number!=0)

step 6:remainder=number/10

step 7:reverse=reverse\*10+remainder

step 8:number=number/10

step 9:print reverse number

step 10:stop

**algorithm for question 5**

step 1:start

step 2:assign vowel=A,E,I,O,U

step 3:s=CITIUSTECH,count=0

step 4:Check if vowel is present in 's'

step 5:if true increament count

step 6:print count

step 7:stop

**Question 7:**

**pseudo code for question 2**

step 1:Start

step 2:get the input "number" from user

step 3:assign count=0

step 4:for(i=2;i<number/2;i++)

step 5:if(number%10)

step 6:count=count+1

step 7:end of for loop

step 8:if count=0

step 9:print "it is prime number"

step 10:else print "not a prime number"

step 11:stop

**pseudo code for question 4**

step 1:Start

step 2:Get the input "number" from user

step 3: initialize fact=1

step 4:for(i=1;i<=number;i++)

step 5:fact=fact\*i

step 6:end of for loop

step 7:print variable fact

step 8:Stop