1. def vote():

age= int(input(“Enter your age:\n”)

if age >= 18:

print(“You are allowed to vote”)

else:

print(“You are eligible to vote”)

1. STEP 1: Start

STEP 2: Declare the variable

STEP 3: Ask the user to enter an integer

STEP 3: Have a condition for number greater than 1

STEP 4: for loop with range starting from 2 and terminating

to the number entered by the user

STEP 5: if the number is divisible by any number in the loop,

then print a message, not a prime number

STEP 6: else the number is a prime number

1. While number > 0:

reminder= number % 10

reverse= (number \* 10) + reminder

number = number / / 10

STEP 1: Start

STEP 2: Declare the variable “n”

STEP 3: Ask the user to enter an integer

STEP 4: Start a for loop with range starting from

the n entered and ending it, while n is greater than 1 while decrementing

each step

STEP 5: in the for loop declare a variable “fact = 1” and have the following

equation fact = fact \* n

STEP 6: print out the fact outside the loop

String= input(“enter the string”)

count= 0

for char in string:

if(char == ‘a’ or char == ‘e’ or char == ‘I’ or char == ‘o’ or char == ‘u’):

count++

print(“Count:”.format(count))

6)

i) STEP 1: START

STEP 2: ask the user for the age

STEP 3: have an if-else condition to determine if the

Entered age is above or below 18

STEP 4: if the age is above 18, then print the message

“eligible to vote”

STEP 5: else, display “not eligible to vote”

iii) STEP 1: START

STEP 2: ask the user for an int n

STEP 3: start a “while” loop with n greater than 0

STEP 4: reminder stores the modulus of n by 10

STEP 5: reverse stores n multiplied by 10 summed with reminder

In order to reverse the digits

STEP 6: do an integer division of the int n to shift

v)

STEP 1: START

STEP 2: Ask the user to enter a string

STEP 3: start a “for” loop with char looking into the string

STEP 4: have an “if” condition to check for vowels in the string

STEP 5: count to count the number of vowels in the string

7)

ii) if n > 1:

for i in range(2,n):

if n % i == 0:

print(“not a prime number”)

else:

print(“is a prime number”)

iv) fact = 1

for i in range(n, 1):

fact = i \* fact

i--

print(fact)