ECS102 - Lab Task 5 - Algorithm

Q.1

- Define variables: num
- Take input for num
- Initialize: None
- Test: num >= 0
- Decrement: num--
- Execute: If num % 2 == 0, print num

Q.2

- Define variables: num ,count, digit
- Take input for num
- Initialize: digit = 1, count = 10
- Test: num/count != 0
- Increment: count *= 10
- Execute: digit++
- Print "digit"

Q.3

- Define variables: num, fact, n
- Take input for num
- Assign n = num
- Initialize: fact = 1
- Test: num != 0
- Decrement: num--
- Execute: fact *= num
- Print fact

Q.4

- Define variables: sum, x, n, count, a
- Take input for values of x and n

- Initialize: sum=1, count=1, a=1
- Test: count <= n
- Increment: count by 1
- Execute: a = a * x and sum += a
- Print sum

Q.5

- Define variables: num1, num2, oper(operator)
- Take input for num1 and num2
- Print "Operation Menu:"
- Print "1. Addition"
- Print "2. Subtraction"
- Print "3. Multiplication"
- Print "4. Division"
- Take input for oper
- Switch for oper
- Case1: num1 + num2
- Case2: num1 – num2
- Case3: num1 * num2
- Case4: num1 / num2
- Default: Print "Invalid operator input"