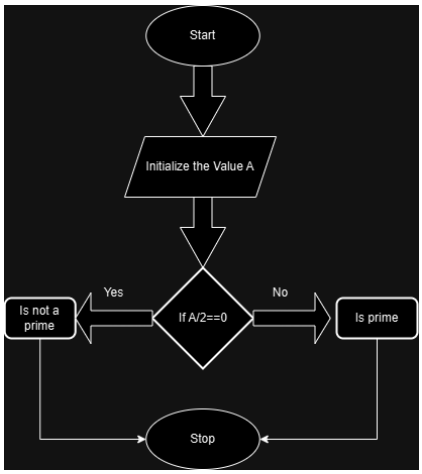
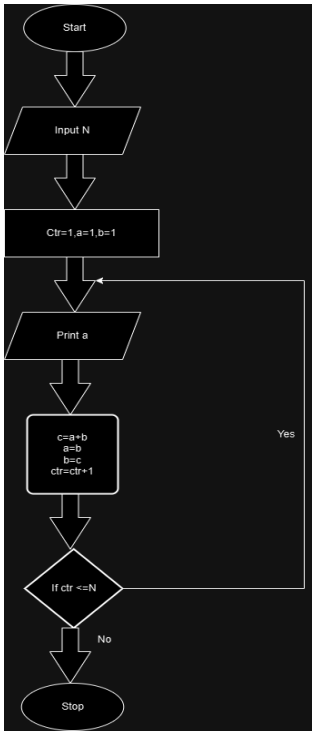
1- Pseudocode for Prime number
   - Start the program
   - Taking the integer variable as A
   - Dividing the Variable A by 2
   - If A is divisible by any value then it is not prime
   - Else it is prime



2- Fibonacci Series
   - Take 3 variables a,b,c
   - Initialize values for a=0,b=1;
   - Using loop calculating the values of c
   - C=a+b
   - a=b
   - b=c
   - print the result



3-Basic Calculator

START

Calculator()

INPUT number1, operator, number2

SWITCH operator

CASE '+':

result = number1 + number2

CASE '-':

result = number1 - number2

CASE '*':

result = number1 * number2

CASE '/':

IF number2 ≠ 0 THEN

result = number1 / number2

ELSE

PRINT "Division by zero error"

ENDIF

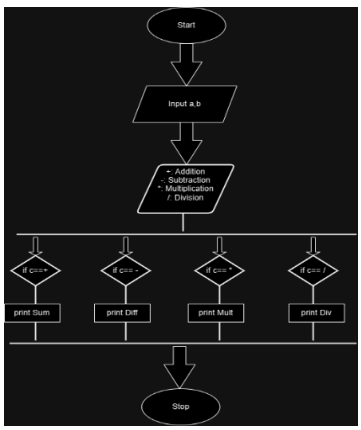
DEFAULT:

PRINT "Invalid operator"

END SWITCH

RETURN result

END



4-Vowels

Start

Input the string str.

Initialize a counter vowelCount = 0.

Define a list of vowels: vowels = ['a', 'e', 'i', 'o', 'u', 'A', 'E', 'I', 'O', 'U'].

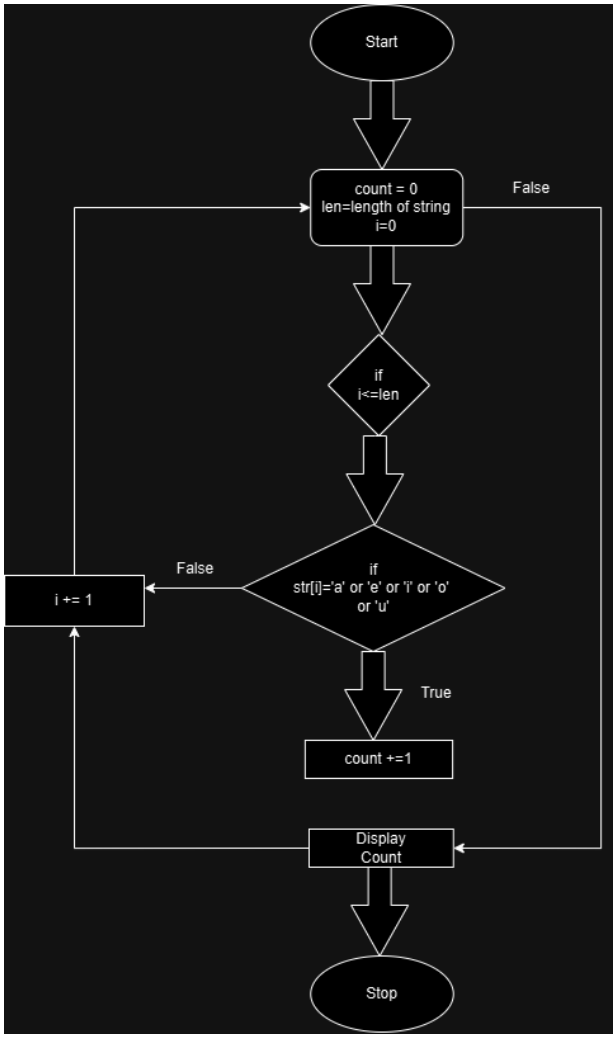
For each character ch in str:

If ch is in vowels:

Increment vowelCount by 1.

Output the value of vowelCount.

End



5-Pallindrome

START

IsPalindrome(string)

length = LENGTH(string)

FOR i = 0 TO length / 2

IF string[i] ≠ string[length - i - 1] THEN

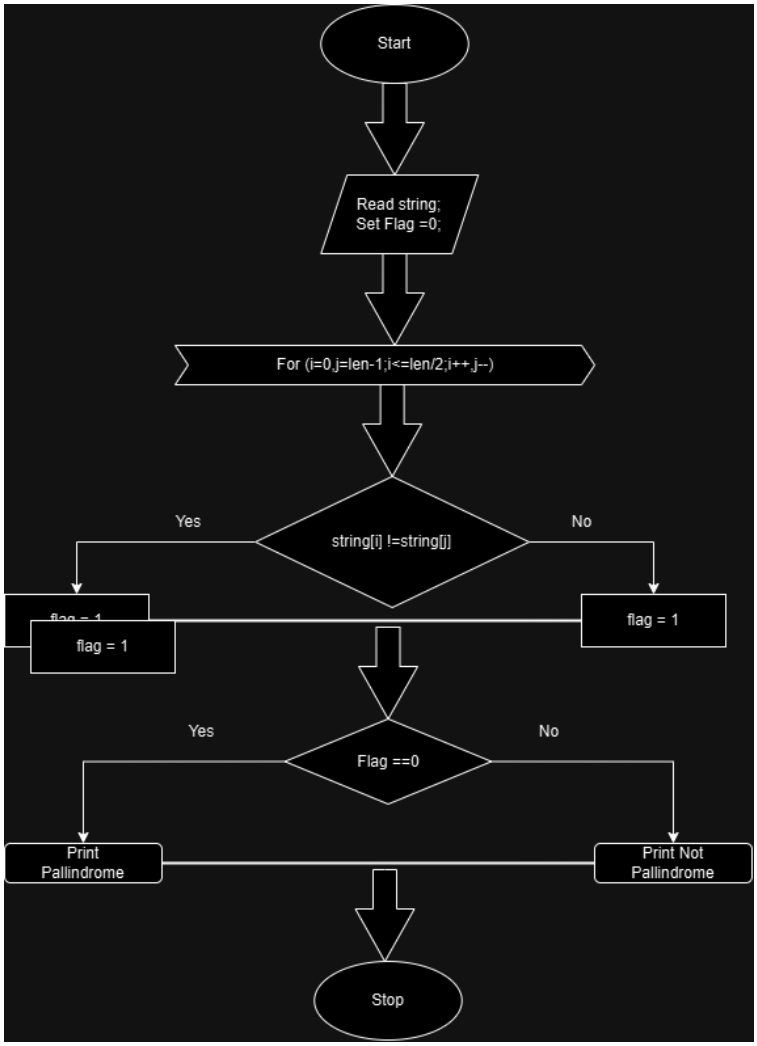
RETURN False

ENDIF

ENDFOR

RETURN True

END



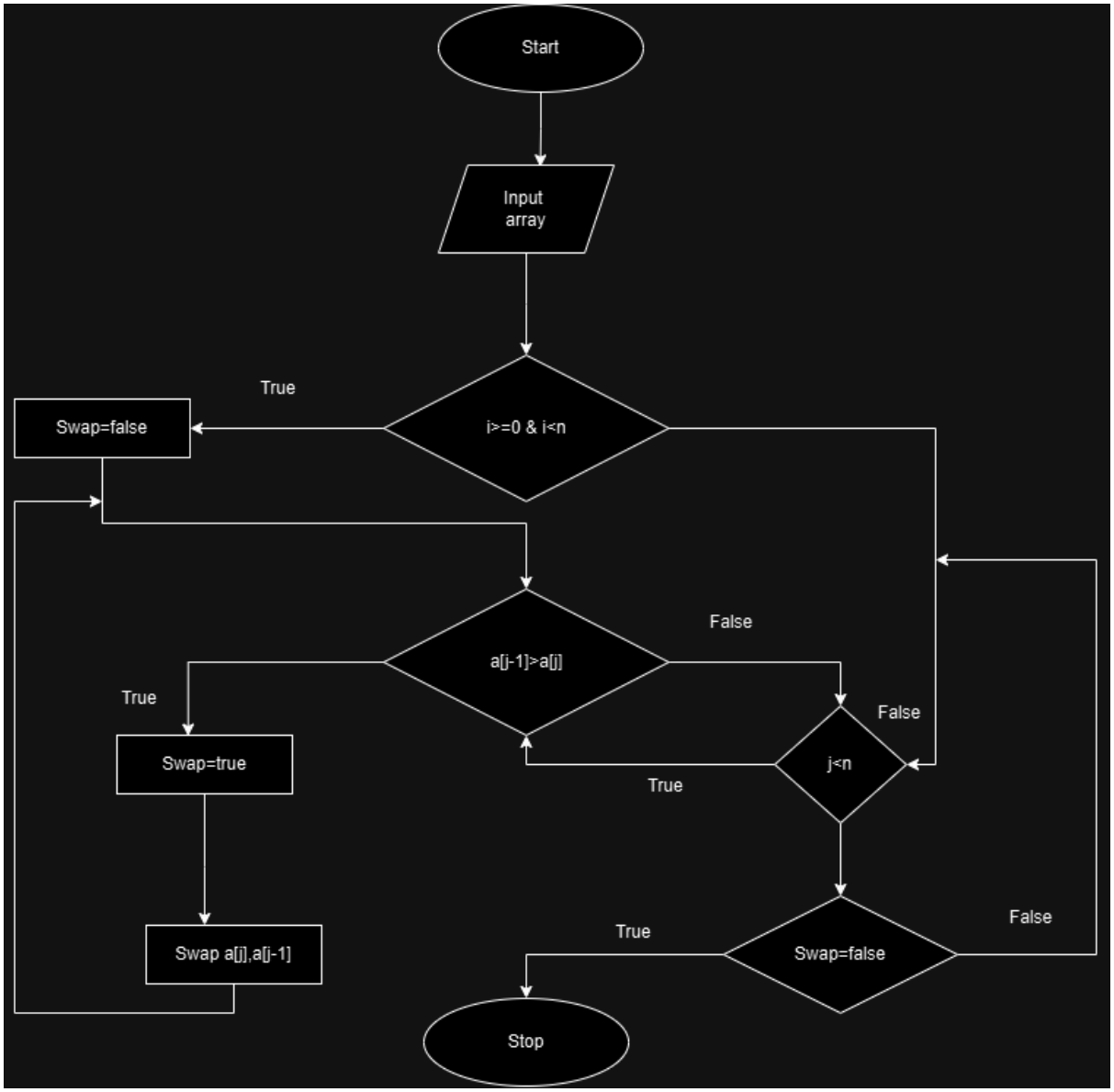
6-Bubble Sort

START

BubbleSort(array, size)

```
  FOR i = 0 TO size - 1
    FOR j = 0 TO size - i - 2
      IF array[j] > array[j + 1] THEN
        SWAP array[j] AND array[j + 1]
      ENDIF
    ENDFOR
  ENDFOR
```

END



7-Factorial

START

Factorial(n)

IF n = 0 THEN

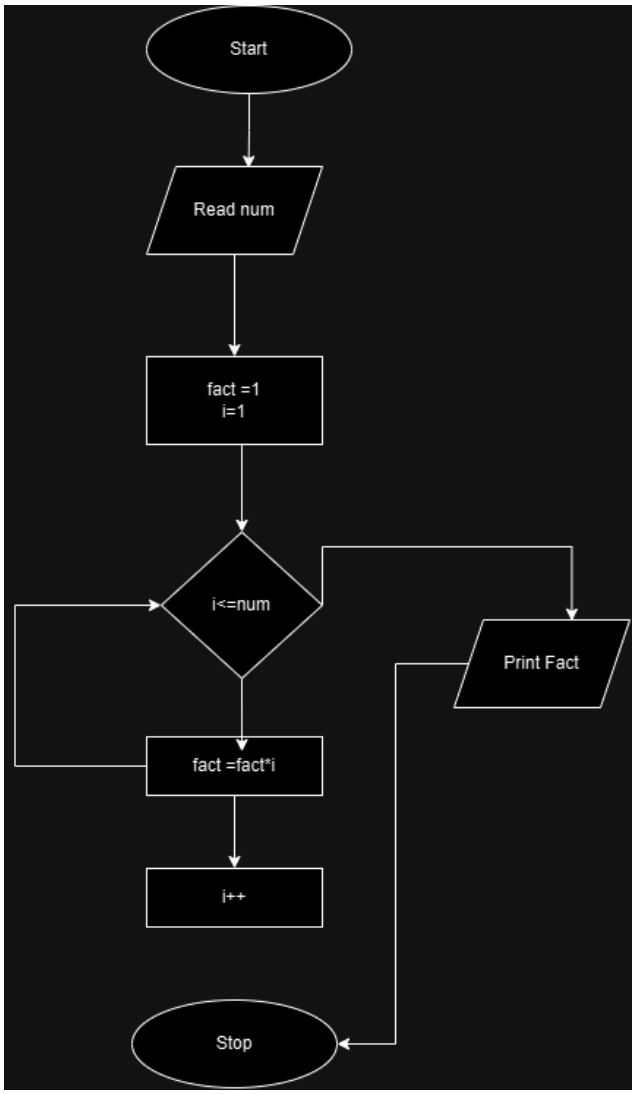
RETURN 1

ELSE

RETURN n * Factorial(n - 1)

ENDIF

END



8-Largest Number

START

Factorial(n)

IF n = 0 THEN

RETURN 1

ELSE

RETURN n * Factorial(n - 1)

ENDIF

END