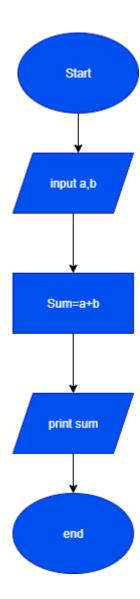
Assignment OOP 1

Sum of Two Integers

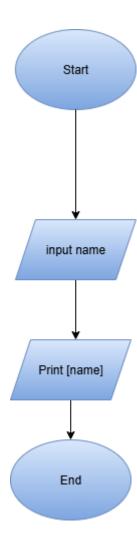
Algorithm:

- 1. Start
- 2. Read two integers a and b
- 3. Calculate sum = a + b
- 4. Print sum
- 5. End



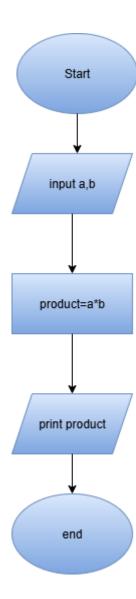
Q2 - Print Hello with Name

- 1. Start
- 2. Read a name from the user
- 3. Print "Hello, [name]!"
- 4. End



- 1. Start
- 2. Read two float numbers x and y
- 3. Calculate product = x * y

4.end



Q4 - Check if Number is Odd or Even

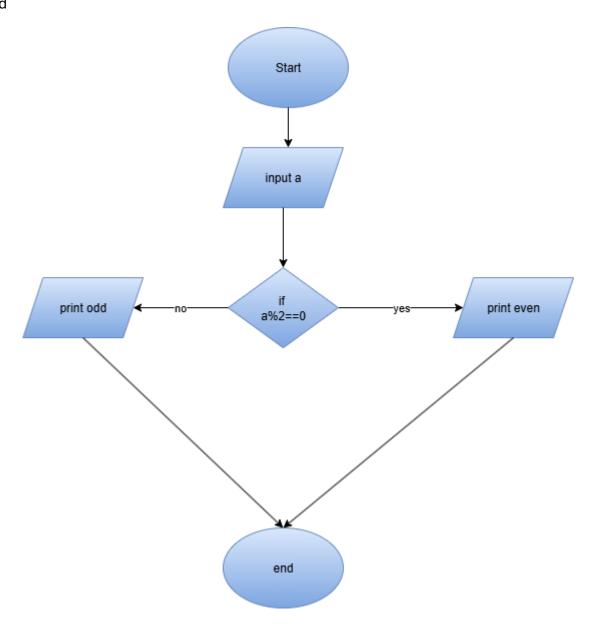
- 1. Start
- 2. Read integer n
- 3. If n % 2 == 0 then

Print "Even"

Else

Print "Odd"

4. End



Q5 - Check if Number is Positive, Negative, or Zero

Algorithm:

1. Start

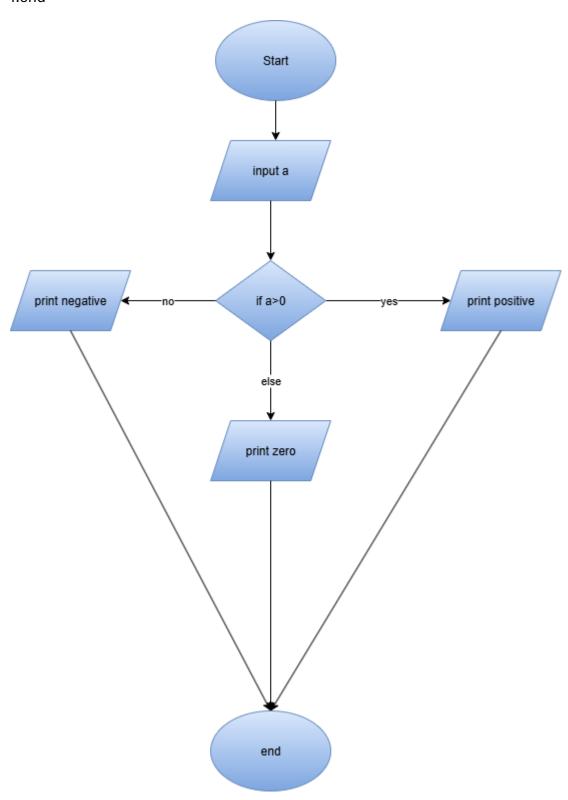
2. Read integer n

3. If n > 0, print "Positive"

Else if n < 0, print "Negative"

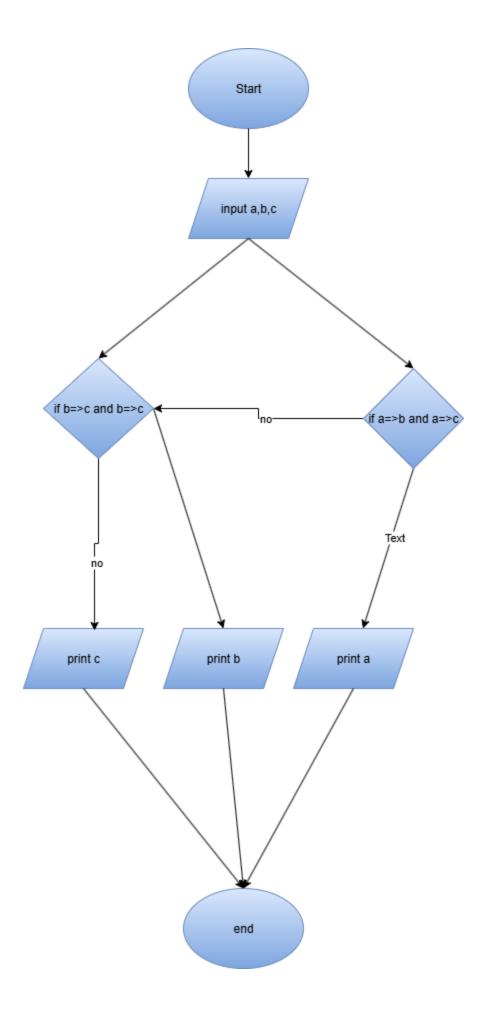
Else, print "Zero"

4.end



Q6 - Print Largest of Three Numbers

- 1. Start
- 2. Read three numbers a, b, c
- 3. Set largest = a
- 4. If b > largest, set largest = b
- 5. If c > largest, set largest = c
- 6. Print largest
- 7.end



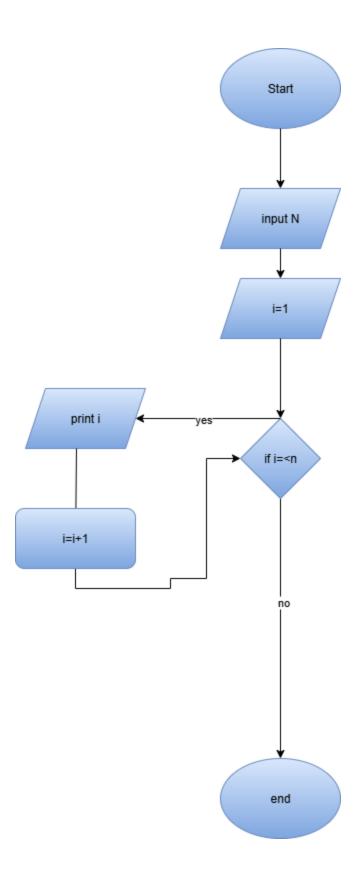
Q7 - Print Numbers from 1 to N

Algorithm:

- 1. Start
- 2. Read integer N
- 3. Set counter i = 1
- 4. While i <= N do:

Print i

Increment i by 1



Q8 - Multiplication Table

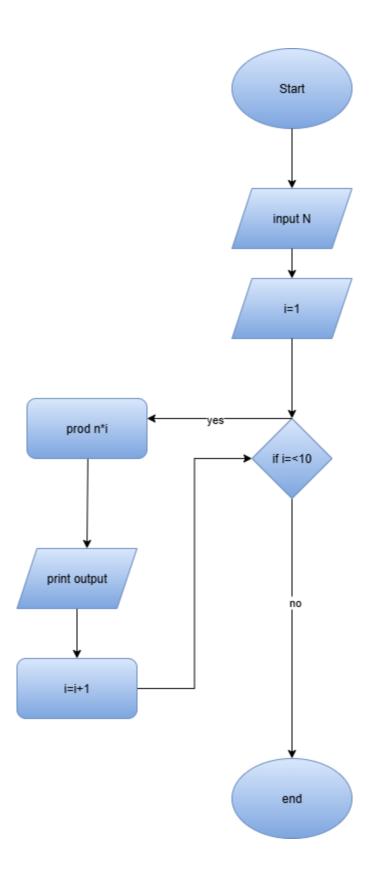
Algorithm:

- 1. Start
- 2. Read integer n
- 3. Set i = 1
- 4. While i <= 10 do:

Print n * i

Increment i

5.end



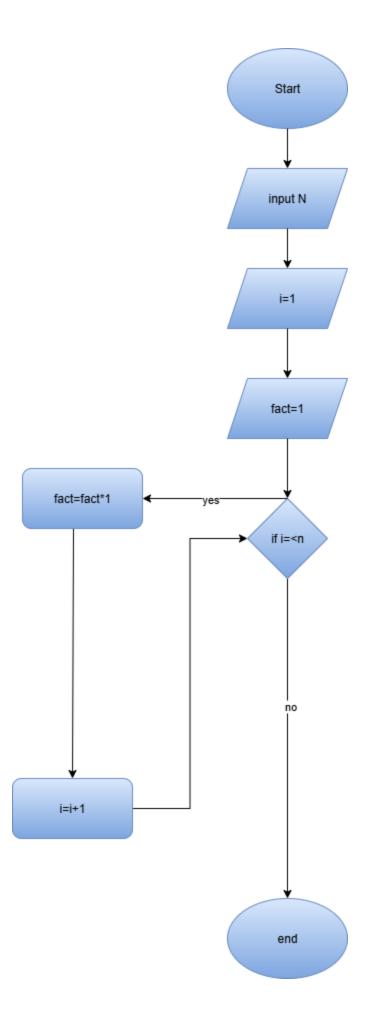
Q9 - Factorial of a Number

Algorithm:

- 1. Start
- 2. Read integer n
- 3. Set fact = 1, i = 1
- 4. While i <= n do:

Increment i

- 5. Print fact
- 6. End



Q10 - Simple Calculator using Switch

Algorithm:

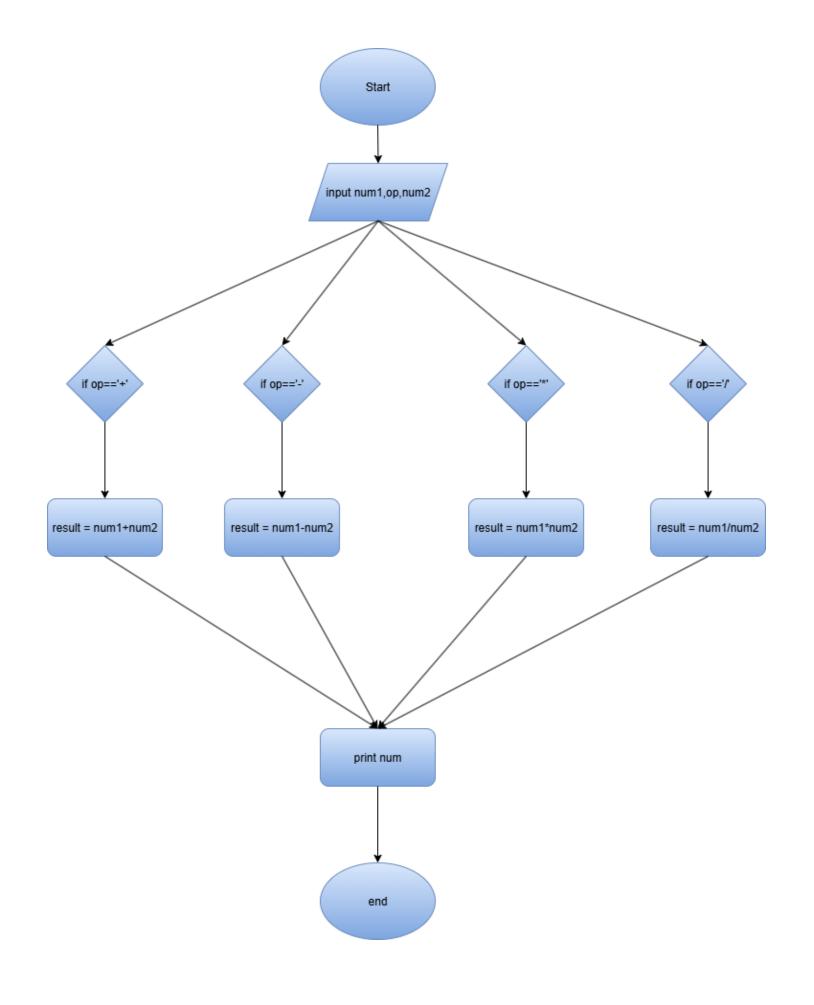
- 1. Start
- 2. Read two numbers a and b
- 3. Read an operator op (+, -, *, /)
- 4. Use switch statement:

```
If op is +, print a + b

If op is -, print a - b

If op is *, print a * b

If op is /, check if b != 0, then print a / b, else print error
```



Q11 - FizzBuzz (1 to 100)

Algorithm:

- 1. Start
- 2. Set i = 1
- 3. While i <= 100 do:

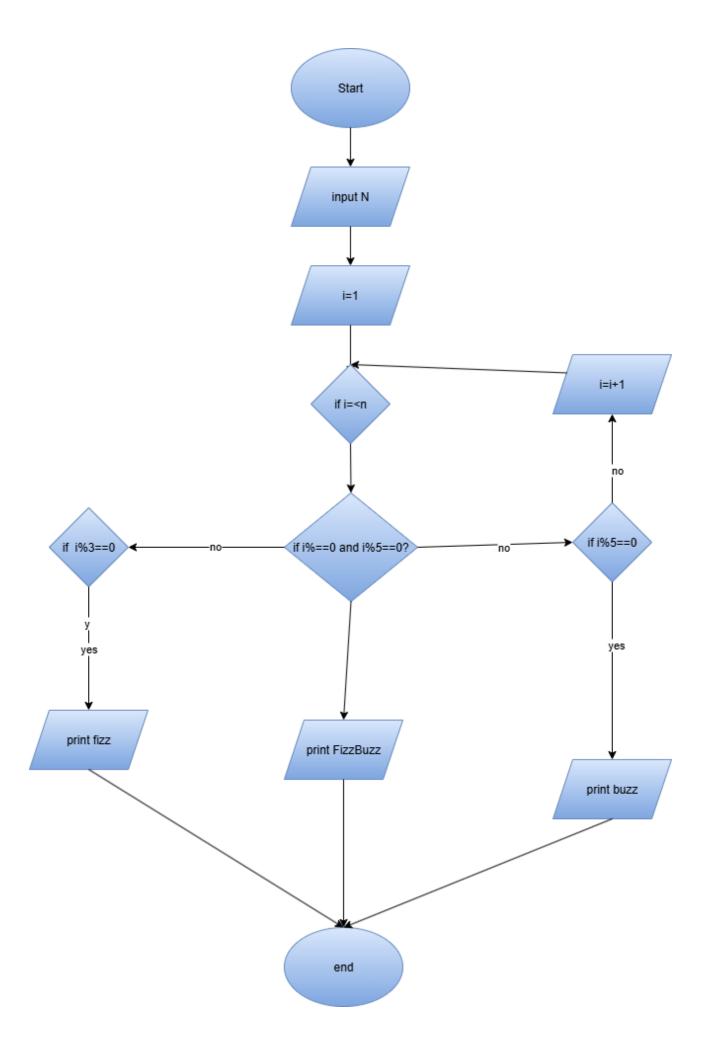
Increment i

```
If i % 3 == 0 and i % 5 == 0 \rightarrow Print "FizzBuzz"

Else if i % 3 == 0 \rightarrow Print "Fizz"

Else if i % 5 == 0 \rightarrow Print "Buzz"

Else \rightarrow Print i
```



Q12 - Check Prime Number

Algorithm:

- 1. Start
- 2. Read integer n
- 3. If $n \le 1 \rightarrow Print "Not Prime"$, End
- 4. Set isPrime = true
- 5. For i = 2 to sqrt(n):

6. If isPrime == true → Print "Prime"

Else → Print "Not Prime"

