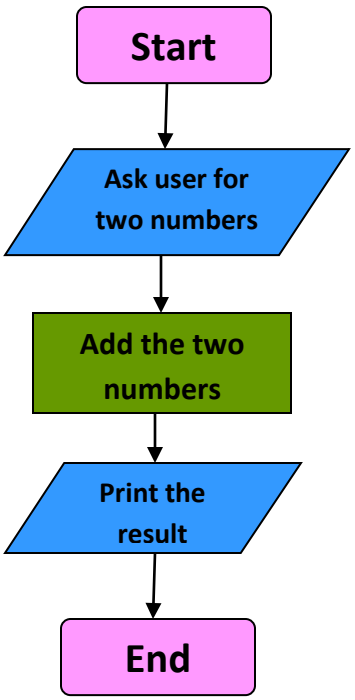
NM – ASSESSMENT – 01 (FULL STACK DEVELOPMENT WITH JAVA – GITHUB)

1) Addition of two numbers:-

```
# start
Num1 = int(input("Enter a number: "))
Num2 = int(input("Enter a number: "))
Add = Num1 + Num2
print(Add)
# end
```

Flowchart:



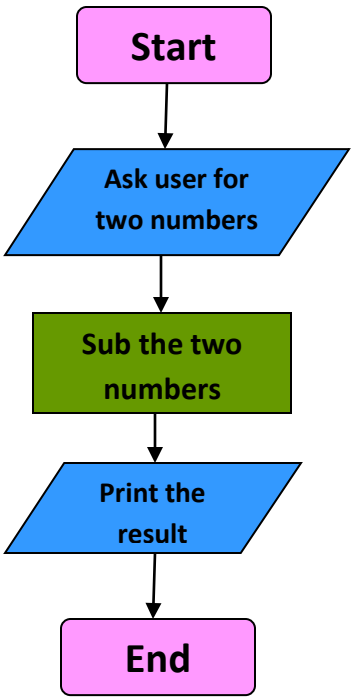
Pseudocode:

1. Prompt user to enter a number and store it in a variable Num1.
2. Prompt user to enter another number and store it in a variable Num2.
3. Add the values stored in Num1 and Num2, and store the result in a variable Add.
4. Print the value stored in Add.

2) Subtraction of two numbers:-

```
# start
Num1 = int(input("Enter a number: "))
Num2 = int(input("Enter a number: "))
Sub = Num1 - Num2
print(Sub)
# end
```

Flowchart:



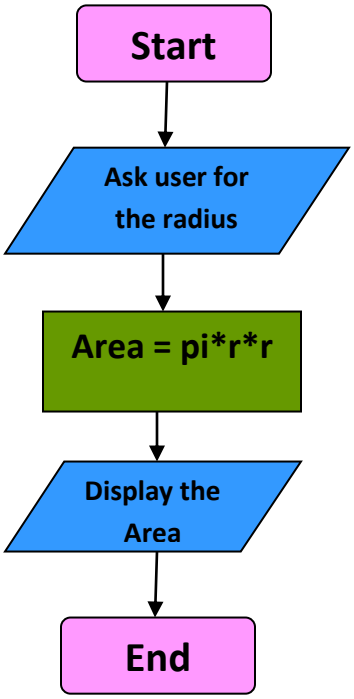
Pseudocode:

1. Prompt user to enter a number and store it in a variable Num1.
2. Prompt user to enter another number and store it in a variable Num2.
3. Sub the values stored in Num1 and Num2, and store the result in a variable Sub.
4. Print the value stored in Sub.

3) Find the Area of the circle:

```
# start
Pi=3.14
R=float(input("Enter the radius of a circle:")
Area = Pi*(R*R)
Print("Area = ",Area)
# end
```

Flowchart:



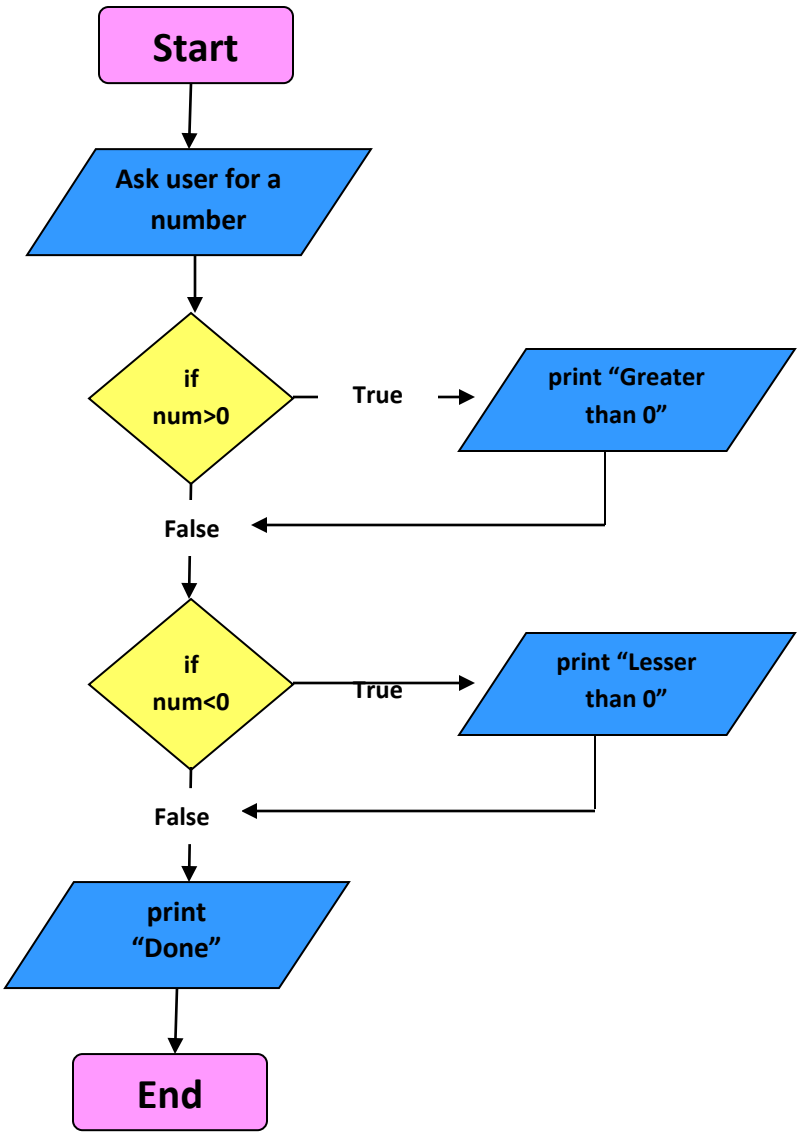
Pseudocode:

1. Set the value of Pi to 3.14.
2. Prompt the user to enter the radius of a circle and store it in a variable R.
3. Calculate the area of the circle using the formula: Area = Pi * (R * R).
4. Print the calculated area with a message: "Area = " followed by the value of Area.

4) Find the Number is Greater than or Less than 0:-

```
# start
num = int(input('Enter a number: '))
if num>0:
    print('num greater than zero')
if num<0:
    print('num less than zero')
print('Done')
# end
```

Flowchart:



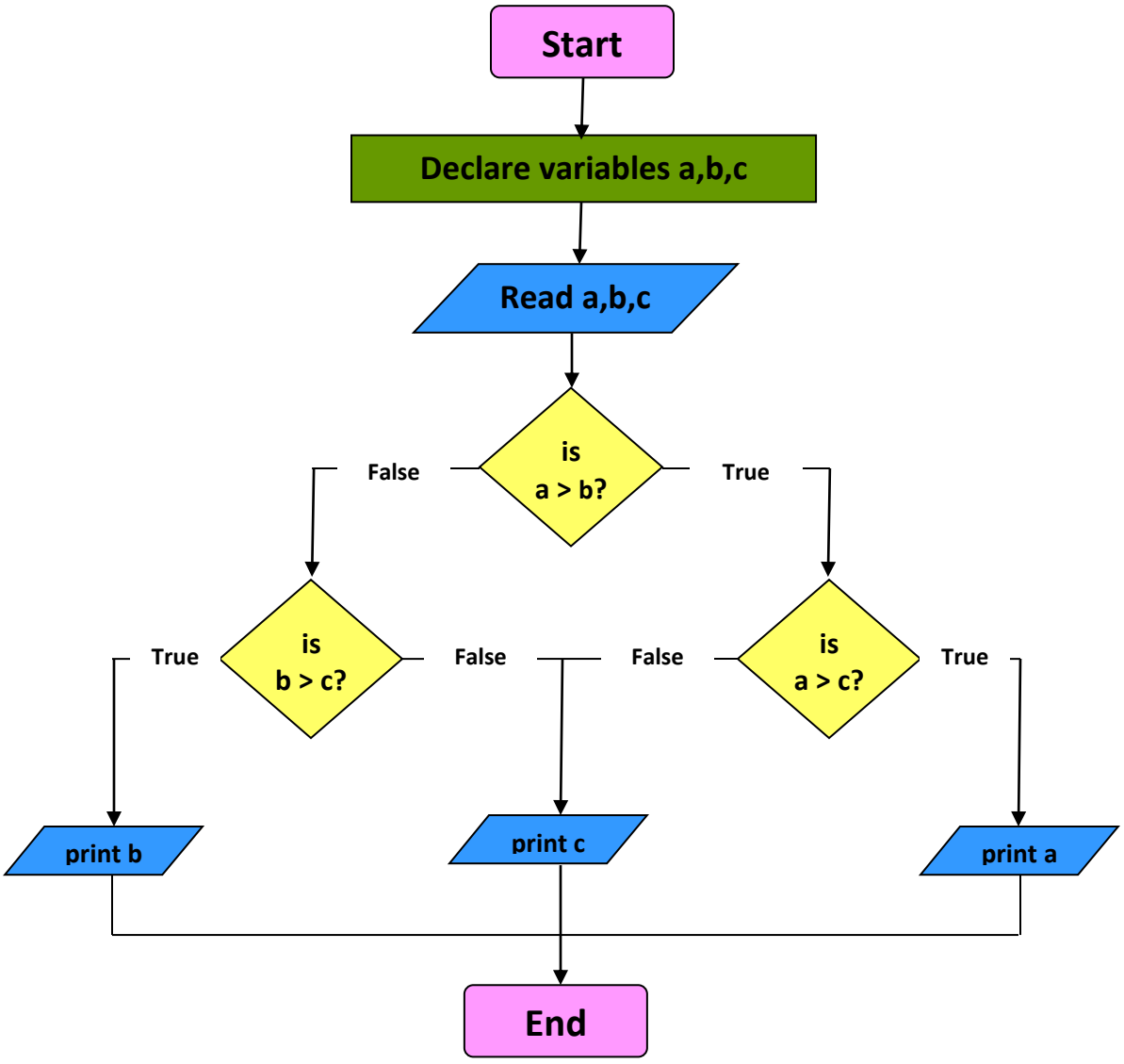
Pseudocode:

1. Prompt the user to enter a number and store it in a variable num as a string.
2. Convert the string in num to a floating-point number and store it back in the num variable.
3. Check if num is greater than zero:
   a. If true, print 'num greater than zero'.
4. Check if num is less than zero:
   a. If true, print 'num less than zero'.
5. Print 'Done' to indicate the end of the program.

5) Find the Largest Among three Numbers:-

```
# start
num1 = 10
num2 = 14
num3 = 12
num1 = float(input("Enter first number: "))
num2 = float(input("Enter second number: "))
num3 = float(input("Enter third number: "))
if (num1 >= num2) and (num1 >= num3):
   largest = num1
elif (num2 >= num1) and (num2 >= num3):
   largest = num2
else:
   largest = num3
print("The largest number is", largest)
# end
```

Flowchart:



Pseudocode:

1.Set num1 = 10 # This line is not needed, as num1, num2, and num3 are re-assigned later.
2. Set num2 = 14
3. Set num3 = 12
4. Input: num1 as a floating-point number from the user
5. Input: num2 as a floating-point number from the user
6. Input: num3 as a floating-point number from the user
7. If (num1 >= num2) and (num1 >= num3):
8. Set largest = num1
9. Elif (num2 >= num1) and (num2 >= num3):
10. Set largest = num2

```
11. Else:
12.    Set largest = num3
13. Print "The largest number is", largest
```