Q1. I : Enter Temperature celcius

P : Convert celcius to fahrenheit

O : Display Fahrenheit

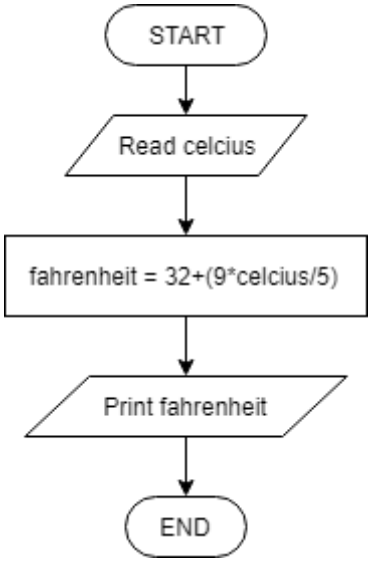
1.0 Start

2.0 Read celcius

3.0 Fahrenheit, fahrenheit = 32+(9*celcius/5)

4.0 Print fahreneit

5.0 End



Q2. I : Read steps

P : Calculate miles

O : Display miles

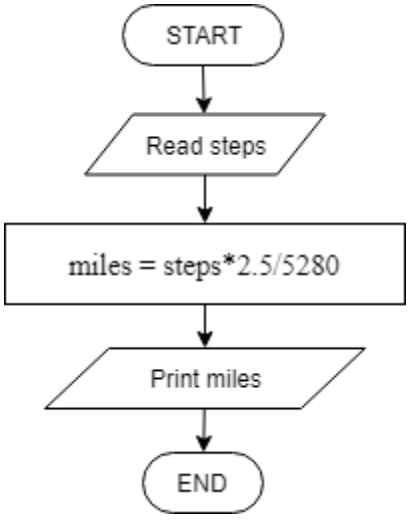
1.0 Start

2.0 Read steps

3.0 miles = steps*2.5/5280

4.0 Print miles

5.0 End



Q3. I : Read num1 and num2

P : - Calculate sum and difference

- determine whether sum is bigger than difference or difference is bigger than sum

O : print sum or difference based on whether sum or difference is bigger

1.0 Start

2.0 Read num1, num2

3.0 Calculate sum, difference

4.0 If sum>differ

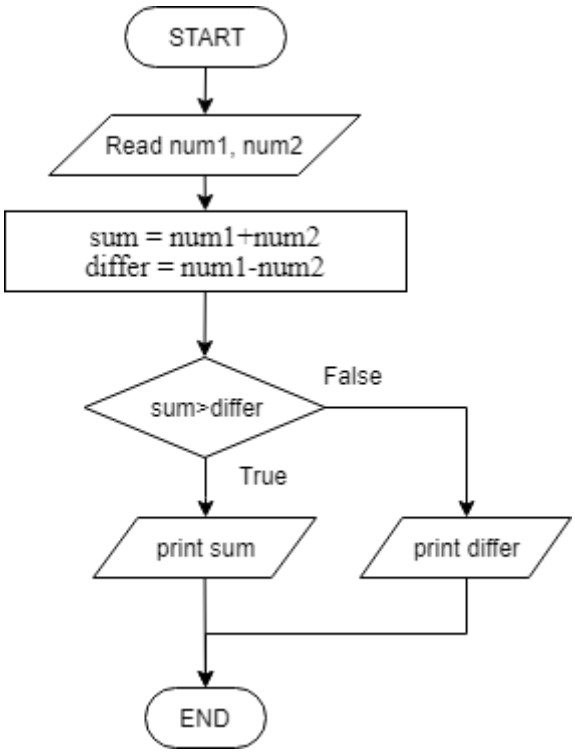
4.1 Print sum

5.0 Else

5.1 Print difference

6.0 End if

7.0 End



Q4. I : Read participant, weight, height

P : Repeat and calculate BMI based on participant

O ; Display BMI

1.0 Start

2.0 Read Participant

3.0 Set c=0

4.0 While c<participant

4.1 Read height, weight

4.2 BMI = wight/(height*height)

4.3 If BMI <18.5

4.31 Print “Underweight”

4.4 Else if BMI<= 25

4.41 Print “Normal”

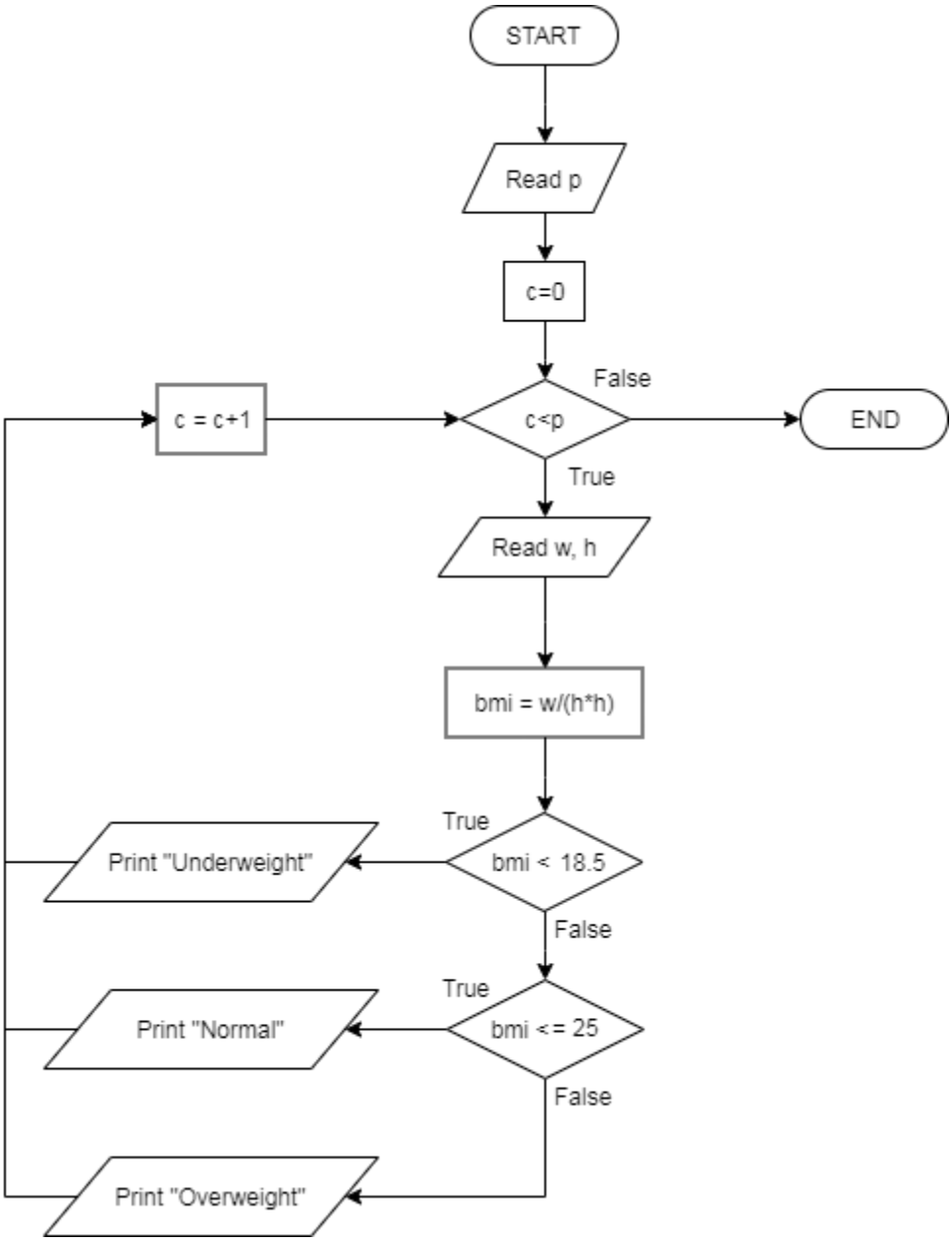
4.5 Else

4.51 Print “Overweight”

4.6 End if

5.0 Endwhile

6.0 End


START
Read p
c=0
False
c = c+1
c<p
END
True
Read w, h
bmi = w/(h*h)
True
Print "Underweight"
bmi < 18.5
False
True
Print "Normal"
bmi <= 25
False
Print "Overweight"

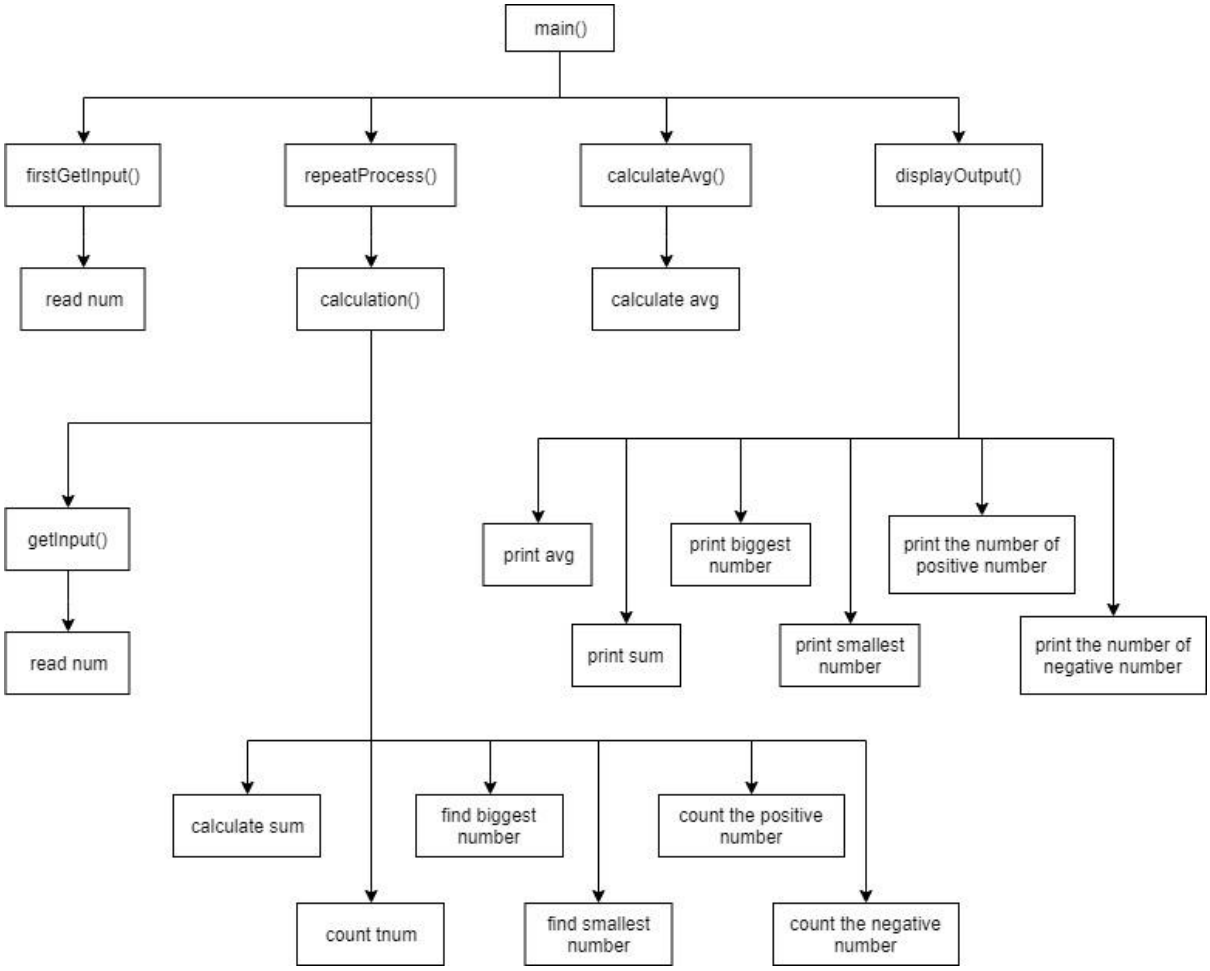
Q5. I : Read number

P : - Count positive and negative number

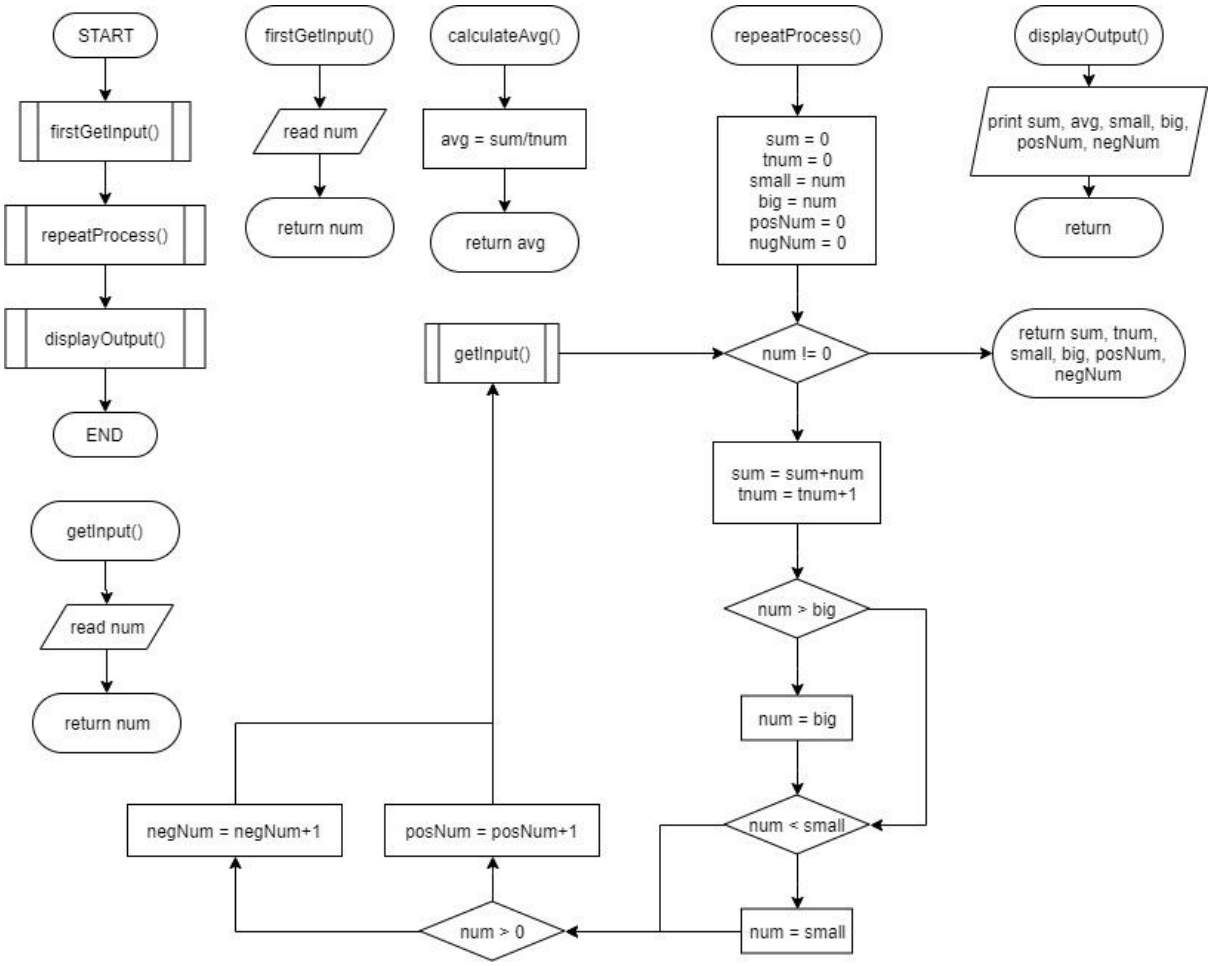
- Calculate total and average

- Determine smallest and biggest number

O : Print the amount of positive and negative numbers, total, average, the smallest number and the biggest number



```
1.00    Start
2.00    call firstGetInput()
2.10            read num
2.20            return num
3.00    call repeatProcess()
3.10            call calculation
3.11                    set sum=0, tnum=0, small=num, big=num, posNum=0, negNum=0
3.12                    while num != 0
3.121                           sum = sum+num
3.122                           tnum = tnum+1
3.123                           if num>0
3.1231                                  posNum = posNum+1
3.124                           else
3.1241                                  negNum = negNum+1
3.125                           end if
3.126                           if num > big
3.1261                                  big = num
3.127                           end if
3.128                           if num < small
3.1281                                  small = num
3.129                           end if
3.1210                          call getInput()
3.12101                                 read num
3.12102                                 return num
3.13                    end while
3.14                    return sum, tnum, negNum, posNum, big, small
3.2             return sum, tnum, negNum, posNum, big, small
4.0     call calculateAvg()
4.1             avg = sum/tnum
4.2             return avg
5.0     call displayOutput()
5.1             print sum, avg, negNum, posNum, big, small
6.0     End
```


START
firstGetInput()
repeatProcess()
displayOutput()
END
firstGetInput()
read num
return num
calculateAvg()
avg = sum/tnum
return avg
repeatProcess()
sum = 0
tnum = 0
small = num
big = num
posNum = 0
nugNum = 0
displayOutput()
print sum, avg, small, big, posNum, negNum
return
getInput()
num != 0
return sum, tnum, small, big, posNum, negNum
sum = sum+num
tnum = tnum+1
num > big
num = big
num < small
num = small
num > 0
posNum = posNum+1
negNum = negNum+1
getInput()
read num
return num