Problem # 10

Start
Declare result = 0 as integer
Declare multiplier = 1 as integer
Declare digit as integer
Output "Enter number"
input number
while (number > 0)
    digit = number % 10
    number /=   10.

if (digit == 0 && number % 10 == 9)
    then

        number /= 10.
        result += 9 * multiplier
        multiplier *= 10
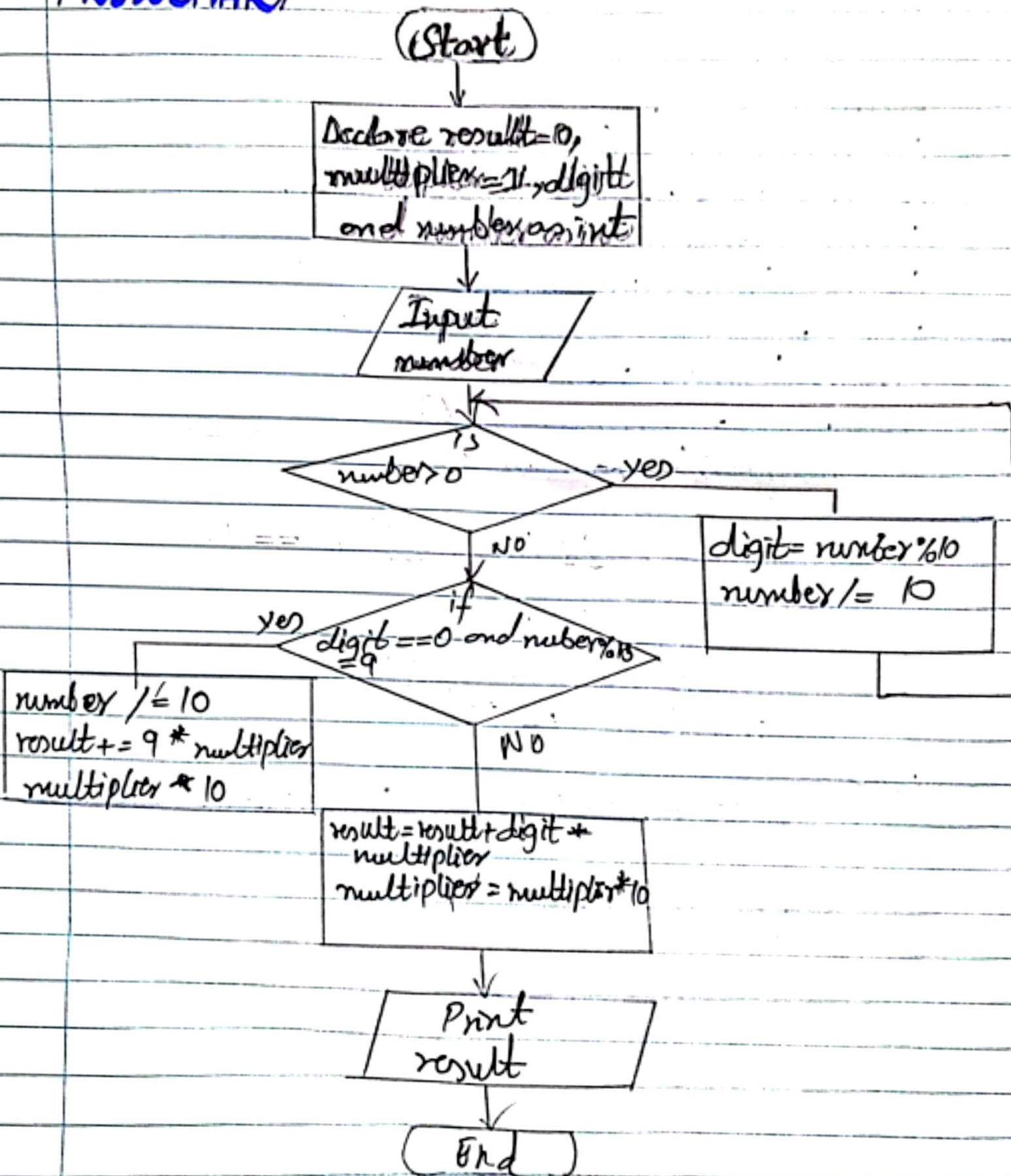else
        result = result + digit * multiplier
        multiplier = multiplier * 10
        Output "result"
end

FLOWCHART

(Start)

↓

Declare result=0,
multiplier=1, digit
and number as int

↓

*Input
number*

↓

**Is
number>0** — yes →

| digit= number%10 |
| number /= 10 |

↓ NO

**if
digit ==0 and number%9
==9** — yes →

| number /= 10 |
| result += 9 * multiplier |
| multiplier * 10 |

↓ NO

result = result+digit *
multiplier
multiplier = multiplier*10

↓

*Print
result*

↓

(End)

Input	Process	Module reference	Output
enter number	enter number	Read	
	if number > 0	calc	number is correct number
	yes		
	digit = number%10		
	number /= 10		
	NO		
	if digit == 0 and number %10 == 9		
	yes		
	number /= 10		
	result += 9*multiple		
	multiplier *10.		
	NO		
	result = result + digit * multiple		
	multiple = multiple *10		
	Print result	Print	