

## Question #01

Count = 0

number = 180

while number > 10

number = number / 3

Count = Count + 1

print ("Total iteration", Count)

### Dry run

Count = 0

number = 180

180 > 10 (T)

number = 180 / 3 = 60

Count = 0 + 1 = 1

60 > 10 (T)

number = 60 / 3 = 20

Count = 1 + 1 = 2

number > 10 (T)

number = 20 / 3 = 6.66

Count = 2 + 1 = 3

6.66 > 10 (F)

Display

### output

Total iteration

3

Q no 2

$i = 1$

$i < 5$

$1 < 5$  (T)

$j = 1$

$1 < 2$  (T)

$2 < 2$  (F)

$i = 2$

$2 < 5$  (T)

$1 < 3$  (T)

$2 < 3$  (T)

$3 < 3$  (F)

$i = i + 1 = 3$

$3 < 5$  (T)

$j = j + 1$

$i < 4$  (T)

$2 < 4$  (T)

$3 < 4$  (T)

$4 < 4$  (F)

$i = i + 1$

$4 < 5$  (T)

$i = 4$

$4 < 5$

$j < i + 1$

$j < 5$  (T)

$2 < 5$  (T)

$3 < 5$  (T)

$4 < 5$  (T)

$5 < 5$  (F)

$i = i + 1$

$i = 5$

out put

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$5 < 5$  (F)

end

### Question #03

dry run

name = "Ahmed Ali"

count = 0

A != m (T)

count

h != m (T)

m != m (T)

count = 0 + 1 = 1

e != m (T)

d != m (T)

A != m (T)

i != m (T)

i != m (T)

out put

Total number  
of m is 1.

### Question #04

dry run

n = 0

i = 0

i < 10 T

j = -1

-1 > -10 (T)

-2 > -10 (T)

-3 > -10 (T)

-4 > -10 (T)

-5 > -10 (T)

-6 > -10 (T)

-7 > -10 (T)

-8 > -10 (T)

-9 > -10 (T)

-10 > -10 (F)

i = i + 1 = 1

j = -1

-1 > -10 (T)

-2 > -10 (T)

-3 > 10 (T)	-7 > 10 (F)	out put
-4 > -10 (T)	-8 > -10 (F)	
-5 > -10 (T)	-9 > -10 (F)	
-6 > -10 (T)	-10 > -10 (F)	
-7 > -10 (T)	will continue to 90	
-8 > -10 (T)		
-9 > -10 (T)		
-10 > -10 (F)		
i = i + 1 = 8		
1 + 2 + 1 < 10 (T)		
-1 > 10 (F)		
-2 > 10 (F)		
-3 > -10 (T)		
-4 > -10 (T)		
-5 > -10 (T)		
-6 > -10 (T)		
		1
		2
		3
		4
		5
		6
		7
		8
		9
		...
		90

Question # 05

Question # 05

dry run

n = 0	output
a = 5	
b = 5	
a > 0 (T)	
5 < 0 (F)	
5 < 5 (F)	
a = 0 + 3 = 3	
print (a)	