## EX1

-Enter number

-Print “Yes” if number greater than 10 otherwise, print “No”

Q1: Write output following input in table below:

|  |  |
| --- | --- |
| Input | Output |
| 10 | No |
| 14 | Yes |
| 13 | Yes |
| 7 | No |

Q2: Draw flowchart on paper

Start

Get N

N > 10

No

Print No

Print Yes

End

Q3: Write code to solve the problem

N = int(input())

if N > 10:

print(“Yes”)

esle:

print(“No”)

## EX2

-Enter a string **number** in the console

- **n** is the length of **string**

-Print **sum of number in string e**xample: “123” = 6

**!! You can use only 1 print instruction!!**

Q1: Write output following input in table below:

|  |  |
| --- | --- |
| Input | Output |
| “12345” | 15 |
| “3457” | 19 |
| “1” | 1 |
| “67” | 13 |

Q2: Draw flowchart on paper

Start

Get N

Result = 0

Done

Len(N)

On going

Result += int(N[i])

Print No

End

Q3: Write code to solve the problem

N = input())

Result = 0

for i in range(len(N)):

result += int(N[i])

print(result)

## EX3

-Enter a string **number** in the console

- **n** is the length of **string**

-Print **sum of even number in string e**xample: “1234” = 6

**!! You can use only 1 print instruction!!**

Q1: Write output following input in table below:

|  |  |
| --- | --- |
| Input | Output |
| “12345” |  |
| “3457” |  |
| “1” |  |
| “67” |  |

Q2: Draw flowchart on paper

Get N

Len(N)

Result = 0

Start

Done

On going

No

Int(N[i] % 2 == 0

Result += int(N[i])

Print Result

End

Q3: Write code to solve the problem

N = input()

Result = 0

for i in range(len()):

if int(N[i]) % 2 == 0:

Result += int(N[i])

Print(Result)

## EX4

-Enter a string **number** in the console

- **n** is the length of **string**

-Print **sum of number in string are greater or equal than 8 e**xamples: “5988” = 25

**!! You can use only 1 print instruction!!**

Q1: Write output following input in table below:

|  |  |
| --- | --- |
| Input | Output |
| “1780945” |  |
| “34857” |  |
| “1” |  |
| “997” |  |

Q2: Draw flowchart on paper

Get N

Len(N)

Print Result

Result = 0

Result += int(N[i])

End

Start

Done

Int(N[i] >= 8

No

On going

Q3: Write code to solve the problem

N = input()

Result = 0

for i in range(len(N)):

if int(N[i]) >= 8:

Result += int(N[i])

Print(Result)

## EX5

-Enter a string in the console

- **n** is the length of **string**

-Print **number of letters in string and print “No letter A” if your string not containing letter A**

**!! You can use only 1 print instruction!!**

Q1: Write output following input in table below:

|  |  |
| --- | --- |
| Input | Output |
| “abcAdD” |  |
| “abbbA” |  |
| “BCD” |  |
| “HKYD” |  |

Q2: Draw flowchart on paper

Start

Get T

N = 0

Result = “”

DONE

Len(T)

On going

No

T[i] == “A” or T[i] == “a”

N == 0

No

Result = “No letter A”

N = N + 1

Result = str(N)+“letter A”

Print Result

End

Q3: Write code to solve the problem

T = input()

N = 0

Result = “”

for i in range(len(T)):

if T[i] == “A” or T[i] == a:

N += 1

if N == 0:

Result = “No letter A”

esle:

Result = str(N)+”letter A”

Print(Result)

## EX6

-Enter a number **n** in the console

-Print a reversed triangle of X (see examples)

**!! You can use only 1 print instruction!!**

Ex:

>4

>XXXX

>XXX

>XX

>X

Q1: Write output following input in table below:

|  |  |
| --- | --- |
| Input | Output |
| 3 | xxx  xx  x |
| 2 | xx  x |

Q2: Draw flowchart on paper

Start

Get T

Result = “”

Done

N

On going

Done

N-i

On going

Result += “x”

Result += “\n”

Print Result

End

Q3: Write code to solve the problem

N = int(input())

Result = “”

for i in range(N):

for j in range(N-i):

Result += “x”

Result += “\n”

Print(Result)

Note: here we **don’t allow** you to use this Python instruction:

myText = “X” \* 10

Why? Because it’s too easy like this! **You need to learn to use 2 REPEAT-N-TIMES**

## EX7

-Enter a string in the console

- **n** is the length of **string**

-Print **reverse of string => Hi = iH**

**!! You can use only 1 print instruction!!**

Q1: Write output following input in table below:

|  |  |
| --- | --- |
| Input | Output |
| “hello” |  |
| “World” |  |
| “Hack” |  |
| “Yes” |  |

Q2: Draw flowchart on paper

Start

Result = “”

Get T

Done

T

On going

Result += T[len(T) – (i + 1)]

print Result

End

Q3: Write code to solve the problem

T = input()

Result = “”

for i in range(len(T)):

Result += T[len(T)-(i + 1)]

print(Result)