# C4- S5-PRACTICE

**EXERCISE 1**

* Enter a text on the console
* Print each characters one by one (*one line per character*)

|  |  |
| --- | --- |
| INPUT | OUTPUT |
| hi | h  i |
| hello | h  e  l  l  o |

text =input()

n =len(text)

for i in range(n):

    print(text[i])

**EXERCISE 2**

* Enter a text on the console
* Replace each letter “a” with “X” and each letter “b” with “Y”
* Print the result

Note: Don’t use replace() function

|  |  |
| --- | --- |
| INPUT | OUTPUT |
| aaccbb | XXccYY |
| abcd | XYcd |

result = ""

text = input()

for i in range(len(text)):

    if text[i] =="a":

        result+= "X"

    elif text[i] =="b":

        result +="Y"

    else:

        result+= text[i]

print(result)

**EXERCISE 3**

We have the following code:

**mystring** = "We Are students"

Complete the table with the result for each code

|  |  |
| --- | --- |
| Code | Result |
| print (myString [0:1]) | W |
| print (myString [0:0]) | space |
| print (myString [:0]) | space |
| Print (myString [-2:5]) | den |
| Print (myString [-10: -5 ]) | e stu |
| Print (myString [0:2:1]) | We |

**EXERCISE 4**

We have the following code:

**mystring** = " welcomeToPNC"

Q1 how to display only "**PNC**"?

Q2 how to display only "**come**"?

Q3 how to display only "**T**"?

Q4 how to display only "**welcome**"?

Q5 How to show only "**ecmTPC**"? ex: mystring[start:end:step]

**EXERCISE 5**

* Enter a text on the console
* Write the code to count the number of A and B (uppercase only)

|  |  |  |
| --- | --- | --- |
| INPUT | OUTPUT | EXPLANATION |
| AAAABBAABBB | 6  5 | We have 6 “A” and 5 “B” |
| AB | 1  1 | We have 1 “A” and 1 “B” |

count1 = 0

count2 = 0

text = input()

for i in range(len(text)):

    if text[i]== "A":

        count1 += 1

    elif text[i]== "B":

        count2 += 1

print(count1)

print(count2)

**EXERCISE 6**

* Enter a text on the console
* Write the code to count the number of A, B, C (lowercase or uppercase)

|  |  |  |
| --- | --- | --- |
| INPUT | OUTPUT | EXPLANATION |
| AaBBAaBbcbcC | 4  5  3 | 4 “a” or “A”  5 “b” or “B”  3 “c” or “C” |
| Aaa | 3  0  0 | 3 “a” or “A” |

text = input()

count1 = 0

count2 = 0

count3 = 0

for i in range(len(text)):

    if (text[i]== "A") or (text[i]=="a"):

        count1 += 1

    elif (text[i]== "B") or (text[i]=="b"):

        count2 += 1

    elif(text[i]=="C") or (text[i]=="c"):

        count3 += 1

print(count1)

print(count2)

print(count3)

**EXERCISE 7**

* Enter a text on the console
* Print the reversed text

|  |  |
| --- | --- |
| INPUT | OUTPUT |
| hey | yeh |
| hello | olleh |

text = input()

print(text[::-1])

**EXERCISE 8**

* Enter a text on the console
* Write the code to change “A” to “\*” and “a” to “@”

**Note**: use only one print on your code!

|  |  |  |
| --- | --- | --- |
| INPUT | OUTPUT | EXPLANATION |
| An apple | \*n @pple | We changed  “A” to “\*”  and  “a” to “@” |
| Application | \*pplic@tion |

result = ""

text =input()

for i in range(len(text)):

    if text[i] =="A":

        result+= "\*"

    elif text[i] =="a":

        result +="@"

    else:

        result+= text[i]

print(result)

**EXERCISE 9**

* Enter a text on the console
* Write the code to remove spaces

**Note**: use only one print on your code!

|  |  |  |
| --- | --- | --- |
| INPUT | OUTPUT | EXPLANATION |
| Hi students ! | Histudents! | “Hi students !”  There are 2 spaces in this message |
| I am a teacher | Iamateacher | “I am a teacher”  3 spaces in this message |

text = input()

result=""

for i in range(len(text)):

    if text[i] !=" ":

        result+=text[i]

print(result)