```
1
    # defining strings:
 2
    name = "mahdi" # double guotations can be used
 3
    name2 = 'mahdi' # single quotations can be used
 4
 5
    print(name2)
 6
8
    fullName = '''batoul
    diab'''
9
    fullName2 = """batoul
10
    diab"""
11
12
    print(fullName)
13
14
    # length of string
    word = "hello"
15
    l = len(word)
16
17
    print(l) # prints: 5
18
    print(len(word)) # prints: 5
19
20
    print(len("hello world")) # a space is considered a char # prints: 11
21
22
23
    # selecting character by its index. remember, indices start with 0
    name = "hello"
24
    print(name[0]) # prints: h
25
26
27
    word = 'hello'
28
    first char = word[0]
29
    print(first_char) # prints: h
30
31
    # Slicing
32
    a = "hello world"
33
    # the character on the right is not included in the slice
    # the character on the left is included in the slice
34
35
36
    print(a[2:7]) # output: hello
37
    print(a[:8])
38
    print(a[2:]) # output: llo world
39
    print(a[-5:-2]) # output: wor
40
    print(a[-1])
41
    print(a[-5:]) # output: world
42
43
    # modifying
44
    name = "Batoul"
45
    print(name.upper()) # prints: BATOUL
46
    print(name.lower()) # prints: batoul
47
48
    # strip string: remove spaces in the beginning or end of a string
49
    name = " batoul diab "
50
    name = name.strip()
```

```
51
     print(name)
52
53
     #replace characters
54
     name = 'batboul'
55
     print(name.replace("ba","cz")) # prints: cztboul
56
57
     # split string:
58
     txt = "hello, batoul diab"
     print(txt.split(" ")) # prints: ['hello,', 'batoul', 'diab']
59
60
61
     # concatinating
62
     print(name + ' ' + txt)
63
64
     # checking if substring is present in a string
65
     name = "batoul diab"
66
     print("batoul" in name) # five Tot string kbir # prints: True
67
     print("z" in name) # five 7ot single character # prints: False
68
     print("B" in name) # prints: False
69
     splittedTxt = txt.split("l") # prints: ['he','','o, batou', ' diab']
70
71
     print(splittedTxt)
     print('hello' in splittedTxt)
72
73
74
     print("z" not in name) # prints: True
75
     print("batoul" not in name) # prints: False
76
77
78
     # application 1 on strings
79
     name = "baToUL"
     firstLetter = name[0].upper()
80
81
     rest = name[1:].lower()
82
     name =firstLetter+rest
83
     print(name)
84
85
     # second solution
     name = "baToUL"
86
     firstLetter = name[0]
87
88
     firstLetter = firstLetter.upper()
89
     rest = name[1:]
     rest = rest.lower()
90
91
     name =firstLetter + rest
92
     print(name)
93
94
95
     name = "baToUL"
96
     print(name[0].upper() + name[2:].lower())
97
98
99
     age = 20
     txt = " his age is " + str(age) # this is a way to get string with number
100
     variable in it
```

```
101
102
     txt2 = f"his age is {age}" # {age} is replaced with variable age. don't forget
     print(txt2)
103
104
     price = 20.12345
105
     txt = f"price is: {price:.3f}" # this gets the number with 3 digits after the
106
     decimal point
     print(txt)
107
108
109
110
111
     txt = f"price doubled is: {price*2}" # we can make operations in the formating
112
     print(txt)
113
     price dollar = 20
114
115
     priceLL = f"price is {price_dollar*90000} L.L"
116
     print(priceLL)
117
118
     priceLL = 800000
     price_dollar = f"price is {priceLL/90000:.2f} dollars"
119
120
     print(price_dollar)
121
122
123
     print(f"price is {1000000/90000:.2f} dollars")
124
125
     not be similar
126
     txt = 'My name is "Batoul"' # outer quotations for string declaration are
     single, inner are double
127
     # backslash makes the single quotation considered as string character not as
     python syntax
128
     txt = 'It\'s "Batoul"'
129
     print(txt)
130
131
     # \n is inserted in the strings where we want to start a new line
     word1 = "hi"
132
133
     word2 = "welcome"
134
     txt = word1 + "\n" + word2
135
     print(txt)
136
     sentence = "hi\nbatoul"
137
138
     print(sentence)
139
140
     # \t is inserted in the strings where we want to add a tab (number of spaces)
     paragraph = """\tthis is a
141
142
     multiline paragraph"""
143
144
     print(paragraph)
145
146
    name = "batOUL"
```

```
147
     print(name.capitalize()) # this make the first letter capital (upper case) and
     others letters lower case.
148
     txt = "this is a text."
149
     print(txt.count("is")) # counts how many times the 'is' string appeared in the
150
     string
151
     print(txt.endswith(".")) # checks if the string ends with '.' . we can replace
152
153
     # check in numeric
     txt = "10"
154
155
     print(txt.isnumeric()) # only this will give true
156
     txt = "a"
     print(txt.isnumeric())
157
     txt = "a10"
158
159
     print(txt.isnumeric())
     txt = " 2"
160
161
     print(txt.isnumeric())
     txt = "10a"
162
     print(txt.isnumeric())
163
164
```