

Python Code

```
1  """
2  String Slicing:
3  "ABCDEFGHijkl"
4  1) CEGi
5  2) KJIHGfED
6  3) KJIHGfEDCB
7  4) KIGe
8  5) AEI
9  """
10 s="ABCDEFGHijkl"
11 sliced=[
12     s[2:-2:2],
13     s[-2:2:-1],
14     s[-2:0:-1],
15     s[-2:3:-2],
16     s[::4]
17 ]
18 for i,slice in enumerate(sliced):
19     print(f'{i+1}){slice}')
20
21 print("=====")
22 #####
23 """
24 "Python String Slicing Example"
25 1) gnirtS nohtyP
26 2) Slicing Example
27 3) emEni iS oy
28 4) Potgigae
29 5) elpmxE
30 6) gtoP
31 """
32 s="Python String Slicing Example"
33
34 sliced=[
35     s[12::-1],
36     s[14::],
37     s[-1:5:-3]+" "+s[4:0:-3],
38     s[0:4],
39     s[-1:-8:-1],
40     s[12::-4]
41 ]
42
43 for i,slice in enumerate(sliced):
44     print(f'{i+1}){slice}')
45
46 print("=====")
47 #####
48 """
49 String Slicing:
50 "Python is easy to learn"
```

```

51 1) easy
52 2) rae
53 3) es ola
54 4) si nohtyP
55 5) tnsa__a(_(space))
56 6) nhY
57 7) easy to learn
58 8) ot ysae
59 """
60 s="Python is easy to learn"
61 sliced=[
62     s[10:14],
63     s[-2:-5:-1],
64     s[10:-1:2],
65     s[8::-1],
66     s[2::3],
67     s[5::-2],
68     s[10::],
69     s[16:9:-1]
70 ]
71
72 for i,slice in enumerate(sliced):
73     print(f"{i+1}]{slice}")
74
75 print("-----")
76 #####
77 """
78 String Slicing:
79 "One of the world's spectacular bridge is Tower Bridge"
80 1) Tower Bridge
81 2) world's spectacular
82 3) egdirb
83 4) Ocho'aare_re(_(space))
84 5) rasleo
85 """
86 s="One of the world's spectacular bridge is Tower Bridge"
87 sliced=[
88     s[-12::],
89     s[11:30],
90     s[-17:30:-1],
91     s[::4],
92     s[29::-5]
93 ]
94
95 for i,slice in enumerate(sliced):
96     print(f"{i+1}]{slice}")
97
98 print("-----")
99 #####
100 """
101 String Slicing Task 3:
102 s = "DATASTRUCTURESANALYSIS"
103 1. Print the first and last character using index values.
104 2. Print the character at index 7.

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105 3. Print the character at index -5.
106 4. Print characters from index 4 to 13.
107 5. Print the string without the first 4 characters.
108 6. Print every second character starting from index 0.
109 7. Print characters at even index positions only.
110 8. Print the entire string in reverse order.
111 9. Print characters from index 15 to index 5 in reverse.
112 10. Print the middle 6 characters using indexing.
113 """
114 s = "DATASTRUCTURESANALYSIS"
115 sliced=[
116     s[0]+s[-1],
117     s[7],
118     s[-5],
119     s[4:13],
120     s[4::],
121     s[0::2],
122     s[::2],
123     s[-1::-1],
124     s[15:5:-1],
125     s[int((len(s)/2))-3:int((len(s)/2))+3]
126 ]
127 for i,slice in enumerate(sliced):
128     print(f"{i+1}){slice}")
129
130 print("-----")
131 #####
132 """
133 String Slicing Task 4:
134 Given: s = "LogicalThinking"
135 Write Python code to get the following outputs using string slicing only:
136 a) Thinking
137 b) gniknihtlacigoL
138 c) Lg1Yiki
139 d) lacigo
140 e) giTk
141
142 Write Python code to:
143 Print the character at index -4
144 Print characters from index 2 to index 7
145 Print characters from index -8 to -1
146 Print the string except the first 3 characters
147 """
148 s = "LogicalThinking"
149 sliced=[
150     s[7::],
151     s[::-1],
152     s[3:2]+s[6]+s[7:-2:2]+s[-3],
153     s[6:0:-1],
154     s[-1:-4:-2]+s[7:-3:4],
155     s[-4],
156     s[2:7],
157     s[-8:-1],
158     s[4::]

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159 ]
160 for i,slice in enumerate(sliced):
161     print(f"{i+1}">{slice}")
162
163 print("=====")
164 #####
165
166
```

```
PS C:\Internship\Kakunje\day2> python task.py
```

- 1)CEGI
- 2)KJIHGFED
- 3)KJIHGFEDCB
- 4)KIGE
- 5)AEI

-
- 1)gnirtS nohtyP
 - 2)Slicing Example
 - 3)emEni iS oy
 - 4)Potgigae
 - 5)elpmaxE
 - 6)gtoP

-
- 1)easy
 - 2)rae
 - 3)es ola
 - 4)si nohtyP
 - 5)tnsa a
 - 6)nhy
 - 7)easy to learn
 - 8)ot ysae

-
- 1)Tower Bridge
 - 2)world's spectacular
 - 3)egdirb
 - 4)Ooho'paare ere
 - 5)rasleo

-
- 1)DS
 - 2)U
 - 3)L
 - 4)STRUCTURE
 - 5)STRUCTURESANALYSIS
 - 6)DTSRCUEAAYI
 - 7)DTSRCUEAAYI
 - 8)SISYLANASERUTCURTSATAD
 - 9)NASERUTCUR
 - 10)CTURES

-
- 1)Thinking
 - 2)gniknihTlacigoL
 - 3)LglTiki
 - 4)lacigo
 - 5)giTk
 - 6)k
 - 7)gical
 - 8)Thinkin
 - 9)calThinking
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