

Python Code

```
1  """
2  String Slicing:
3  "ABCDEFGHIJKLM"
4  1) CEGI
5  2) KJIHGFED
6  3) KJIHGFEDEC
7  4) KIGE
8  5) AEI
9  """
10 s="ABCDEFGHIJKLM"
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 si oy
28 4) Potgigae
29 5) elpmaxe
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) nhý
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) Ooho'aare_re(_(space))
84 5) rasileo
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 = "DATASTRUCTURESAANALYSIS"
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 = "DATASTRUCTUREANALYSIS"
115 sliced>[
116     s[0]+s[-1],
117     s[7],
118     s[-5],
119     s[4:13],
120     s[4::],
121     s[8::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) lglfiki
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::]
```

```
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
```
