```
"""
"ABCDEFGHIJKL"
1) CEGI
2) KJIHGFED
3) KJIHGFEDCB
4) KIGE
5) AEI
"""

s= "ABCDEFGHIJKL"

# CEGI
print(s[2:9:2])
print(s[-10:-3:2])

# KJIHGFED
print(s[10:2:-1])
print(s[-2:-10:-1])

# KJIHGFEDCB
print(s[10:0:-1])
print(s[-2:-12:-1])

# KIGE
print(s[10:3:-2])
print(s[-2:-9:-2])

# AEI
print(s[0:9:4])
print(s[-12:-3:4])
```

Output:

```
PS D:\Internship\Day2> python task1.py
CEGI
CEGI
KJIHGFED
KJIHGFED
KJIHGFEDCB
KJIHGFEDCB
KIGE
KIGE
AEI
AEI
```

```
"""
"Python String Slicing Example"
1) gnirtS nohtyP
2) Slicing Example
3) emEni iS oy
4) Potgigae
5) elpmaxE
6) gtoP
"""

s= "Python String Slicing Example"

# gnirtS nohtyP
print(s[12::-1])
print(s[-17::-1])

# Slicing Example
print(s[14::1])
print(s[-15::1])

# emEni iS oy
print(s[28:0:-3])
print(s[-1:-29:-3])
```

```
# Potgigae

print(s[0::4])

print(s[-29::4])


# elpmaxE

print(s[28:21:-1])

print(s[-1:-8:-1])


# gtoP

print(s[12::-4])

print(s[-17::-4])
```

Output:

```
PS D:\Internship\Day2> python task2.py
gnirtS nohtyP
gnirtS nohtyP
Slicing Example
Slicing Example
emEni iSoy
emEni iSoy
Potgigae
Potgigae
elpmaxE
elpmaxE
gtoP
gtoP
```

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

s= "Python is easy to learn"

# easy
print(s[10:14:1])
print(s[-13:-9:1])

# rae
print(s[21:18:-1])
print(s[-2:-5:-1])

# es ola
print(s[10:21:2])
print(s[-13:-2:2])

# si nohtyP
print(s[8::-1])
print(s[-15::-1])

# tnsa  a
print(s[2:21:3])
print(s[-21:-2:3])
```

```
# nhy
print(s[5:0:-2])
print(s[-18:-23:-2])

# easy to learn
print(s[10::1])
print(s[-13::1])

# ot ysae
print(s[16:9:-1])
print(s[-7:-14:-1])
```

Output:

```
PS D:\Internship\Day2> python task3.py
easy
easy
rae
rae
es ola
es ola
si nohtyP
si nohtyP
tnsa  a
tnsa  a
nhy
nhy
easy to learn
easy to learn
ot ysae
ot ysae
```

"""

"One of the world's spectacular bridge is Tower Bridge"

1) Tower Bridge

2) world's spectacular

3) egdirb

4) Ooho'paare ere

5) rasleo

"""

```
s= "One of the world's spectacular bridge is Tower Bridge"


# Tower Bridge
print(s[41::1])
print(s[-12::1])

# world's spectacular
print(s[11:31])
print(s[-42:-22])

# egdirb
print(s[36:29:-1])
print(s[-17:-24:-1])

# Ooho'paare ere
print(s[0::4])
print(s[-53::4])

# rasleo
print(s[29:3:-5])
print(s[-24:-50:-5])
```

Output:

```
PS D:\Internship\Day2> python task4.py
Tower Bridge
Tower Bridge
world's spectacular
world's spectacular
egdirb
egdirb
Ooho'paare ere
Ooho'paare ere
rasleo
rasleo
```

"""

S = "DATASTRUCTURESANALYSIS"

1. Print the first and last character using index values.

2. Print the character at index 7.

3. Print the character at index -5.

4. Print characters from index 4 to 13.

5. Print the string without the first 4 characters.

6. Print every second character starting from index 0.

7. Print characters at even index positions only.

8. Print the entire string in reverse order.

9. Print characters from index 15 to index 5 in reverse.

10. Print the middle 6 characters using indexing.

"""

```
s = "DATASTRUCTURESANALYSIS"

# Print the first and last character using index values.
print(s[0], s[21])
print(s[-22], s[-1])

# 2.Print the character at index 7.
print(s[7])
print(s[-15])

# Print the character at index -5.
print(s[-5])

# Print characters from index 4 to 13.
print(s[4:14:1])

# Print the string without the first 4 characters.
print(s[4::1])
print(s[-18::1])
```

```
# Print every second character starting from index 0.
print(s[0::2])

# Print characters at even index positions only.
print(s[::2])
print(s[-22::2])

# Print the entire string in reverse order.
print(s[::-1])
print(s[-1:-23:-1])

# Print characters from index 15 to index 5 in reverse.
print(s[15:4:-1])

# Print the middle 6 characters using indexing.
print(s[8:14:1])
print(s[-14:-8:1])
```

Output:

```
PS D:\Internship\Day2> python task5.py
D S
D S
U
U
L
STRUCTURES
STRUCTURESANALYSIS
STRUCTURESANALYSIS
DTSRCUEAAYI
DTSRCUEAAYI
DTSRCUEAAYI
SISYLANASERUTCURTSATAD
SISYLANASERUTCURTSATAD
NASERUTCURT
CTURES
CTURES
```

"""

s = "LogicalThinking"

Write Python code to get the following outputs using string slicing only.

a) Thinking

b) gniknihTlacigoL

c) LglTiki

d) lacigo

e) giTk

Write Python code to:

1) Print the character at index 3

2) Print the character at index -4

3) Print characters from index 2 to index 7

4) Print characters from index -8 to -1

5) Print the string except the first 3 characters

"""

```
s = "LogicalThinking"

# Thinking
print(s[7::1])
print(s[-8::1])

# gnihkniTlacigoL
print(s[::-1])
print(s[-1:-16:-1])

# LglTiki
print(s[0::2])
print(s[-15::2])

# lacigo
print(s[6:0:-1])
print(s[-9:-15:-1])
```

```
# giTk
print(s[2:12:3])
print(s[-13:-3:3])

# Print the character at index 3
print(s[3])

# Print the character at index -4
print(s[-4])

# Print characters from index 2 to index 7
print(s[2:8])

# Print characters from index -8 to -1
print(s[-8:-1])

# Print the string except the first 3 characters
print(s[3:])
print(s[-12:])
```

Output:

```
PS D:\Internship\Day2> python task6.py
Thinking
Thinking
gniknihTlacigoL
gniknihTlacigoL
lacigo
lacigo
i
k
gicalT
Thinkin
icalThinking
icalThinking
```