

## String Slicing

"ABCDEFGHIIJKL"

1) CEGI

2) KJIHGFED

3) KJIHGFEDCB

4) KIGE

5) AEI

s = "ABCDEFGHIIJKL"

# 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

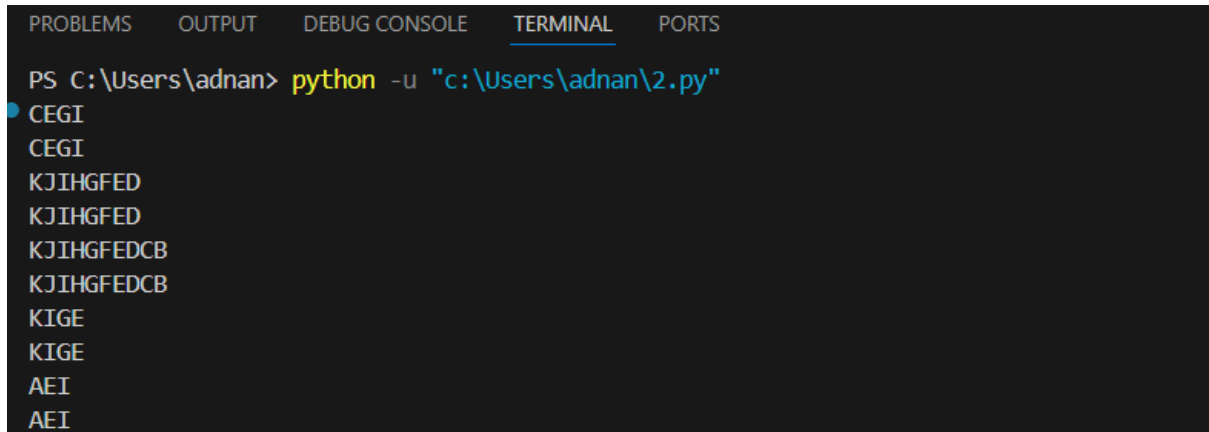
print(s[10:3:-2])

print(s[-2:-9:-2])

# AEI

```
print(s[0:9:4])
```

```
print(s[-12:-3:4])
```



```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
PS C:\Users\adnan> python -u "c:\Users\adnan\2.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])
```

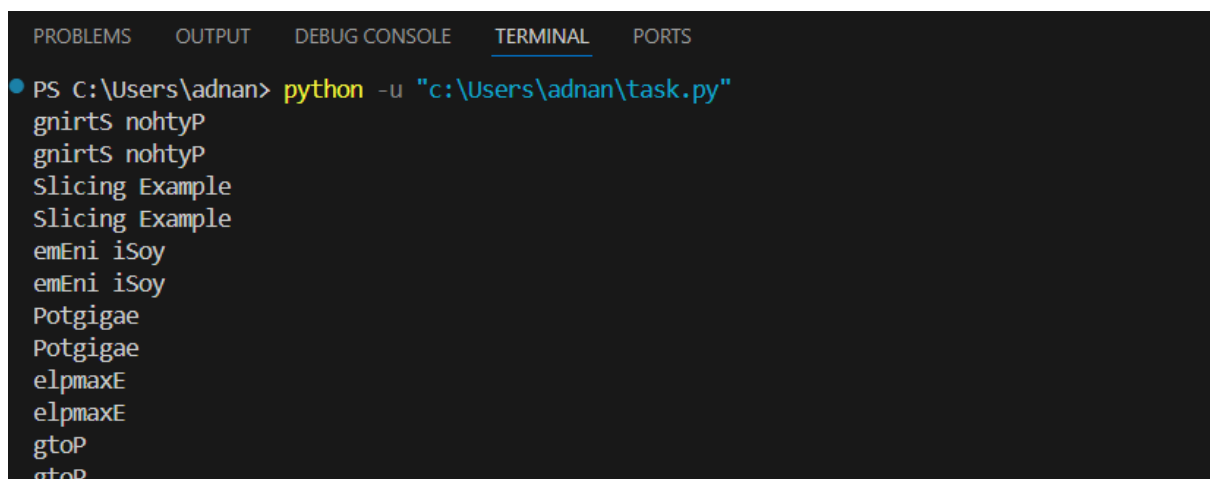
```
print(s[-15::1])
```

```
# 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])
```



The screenshot shows a VS Code interface with a terminal window open. The terminal has tabs for PROBLEMS, OUTPUT, DEBUG CONSOLE, TERMINAL (which is active), and PORTS. The terminal output shows the command `python -u "c:\Users\adnan\task.py"` being executed, followed by the output of the script: `gnirts nohtyP`, `gnirts nohtyP`, `Slicing Example`, `Slicing Example`, `emEni iSoy`, `emEni iSoy`, `Potgigae`, `Potgigae`, `elpmaxE`, `elpmaxE`, `gtoP`, and `gtoP`.

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS
● PS C:\Users\adnan> python -u "c:\Users\adnan\task.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) nh y

7) easy to learn

8) ot ysae

s = "Python is easy to learn"

# 1) easy

print(s[10:14:1])

print(s[-13:-9:1])

# 2) rae (single slice with negative step)

print(s[20:17:-1]) # 'rae'

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

# 3) es ola

print(s[10:21:2])

print(s[-13:-2:2])

# 4) si nohtyP

print(s[8::-1])

print(s[-15::-1])

# 5) tnsa a

```
print(s[2:21:3])
```

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

# 6) nh y

```
print(s[5:0:-2])
```

```
print(s[-18:-23:-2])
```

# 7) easy to learn

```
print(s[10::1])
```

```
print(s[-13::1])
```

# 8) ot ysae

```
print(s[16:9:-1])
```

```
print(s[-7:-14:-1])
```

```
PS C:\Users\adnan> python -u "c:\Users\adnan\tempCodeRunnerFile.py"
easy
easy
rae
rae
es ola
es ola
si nohtyP
si nohtyP
tnsa a
tnsa a
nh y
nh y
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])

```

PS C:\Users\adnan> python -u "c:\Users\adnan\task.py"
● Tower Bridge
Tower Bridge
world's spectacular
world's spectacular
egdirb
egdirb
Ooho'paare ere
Ooho'paare ere
rasleo
rasleo
○ PS C:\Users\adnan>

```

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"

# 1. First and last character

```
print(s[:1], s[-1:])
```

```
print(s[-22], s[-1])
```

# 2. Character at index 7

```
print(s[7:8])
```

```
print(s[-15])
```

# 3. Character at index -5

```
print(s[-5:-4])
```

# 4. Characters from index 4 to 13

```
print(s[4:14])
```

# 5. String without the first 4 characters

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

```
print(s[-18::1])
```

# 6. Every second character starting from index 0

```
print(s[::2])
```

# 7. Characters at even index positions only

```
print(s[0::2])
```

```
print(s[-22::2])
```

# 8. Entire string in reverse order

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

```
print(s[-1:-23:-1])
```

# 9. Characters from index 15 to index 5 in reverse

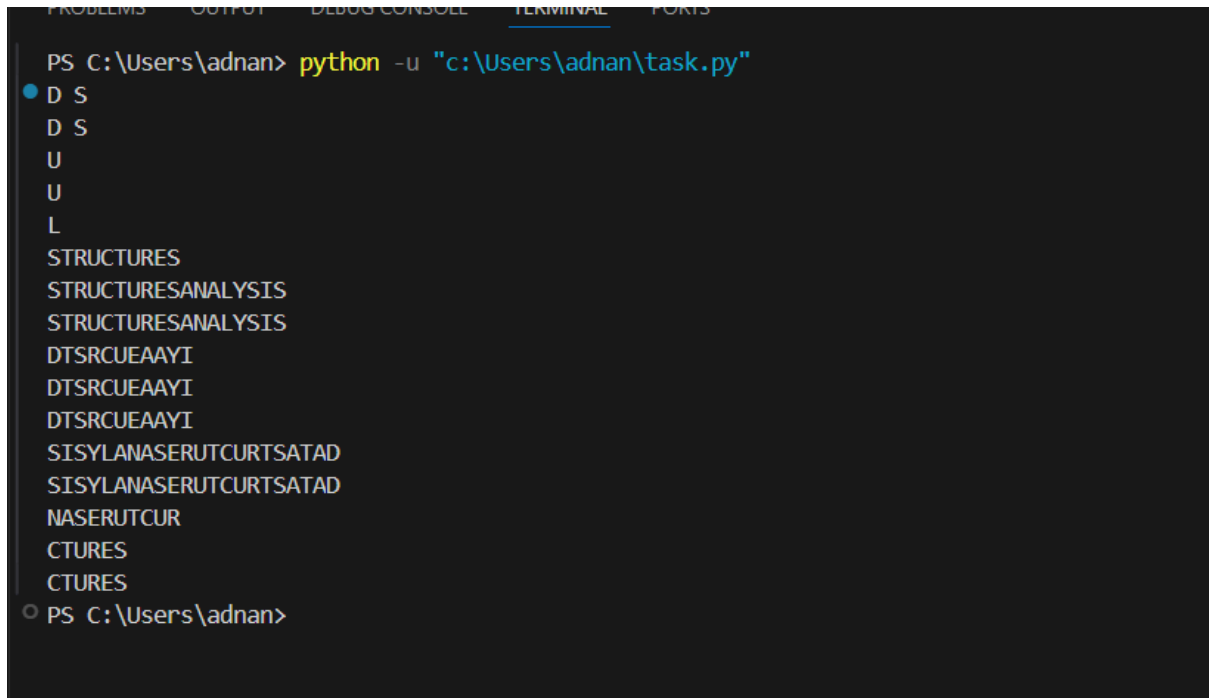
```
print(s[15:5:-1])
```

# 10. Middle 6 characters



```
print(s[8:14:1])
```

```
print(s[-14:-8:1])
```



```
PS C:\Users\adnan> python -u "c:\Users\adnan\task.py"
D S
D S
U
U
L
STRUCTURES
STRUCTURESANALYSIS
STRUCTURESANALYSIS
DTSRCUEAAYI
DTSRCUEAAYI
DTSRCUEAAYI
SISYLANASERUTCURTSATAD
SISYLANASERUTCURTSATAD
NASERUTCUR
CTURES
CTURES
PS C:\Users\adnan>
```

```
s = "LogicalThinking"
```

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

- a) Thinking
- b) gniknihTlacigoL
- c) LgITiki
- 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:])
```

```
PS C:\Users\adnan> python -u "c:\Users\adnan\task.py"
Thinking
Thinking
gniknihTlacigoL
gniknihTlacigoL
lgclhnig
lgclhnig
lacigo
lacigo
gahk
gahk
i
k
gicalT
Thinkin
icalThinking
icalThinking
```