String Slicing

"ABCDEFGHIJKL"

1) CEGI

2) KJIHGFED

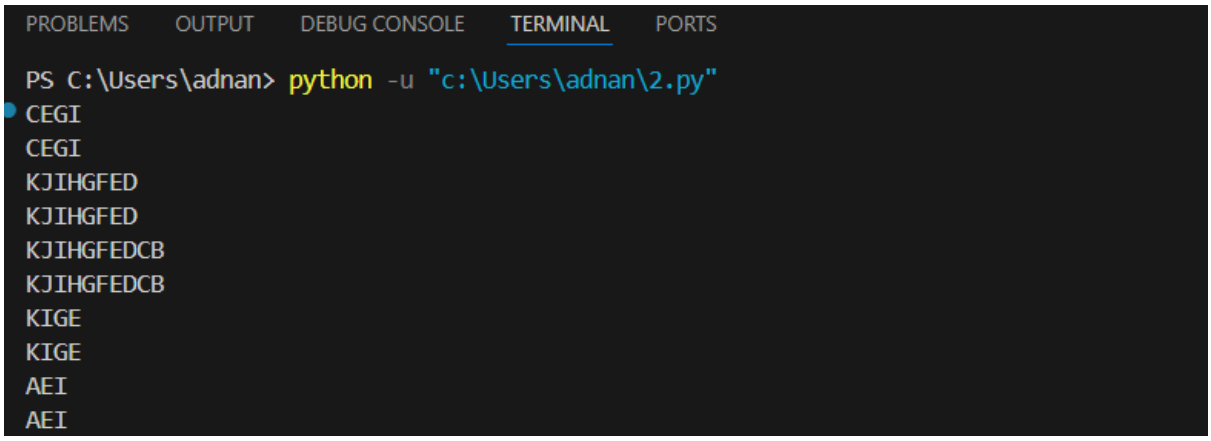
3) KJIHGFEDCB

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])
```



"Python String Slicing Example"

1) gnirtS nohtyP

2) Slicing Example

3) emEni iS oy

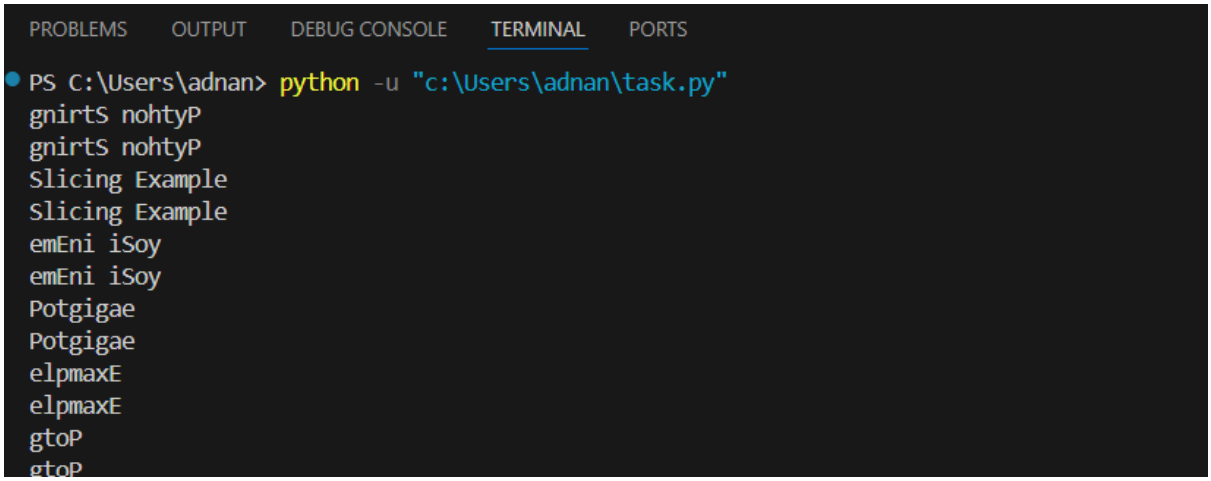
4) Potgigae

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])
```



"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"

# 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) nhy

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
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

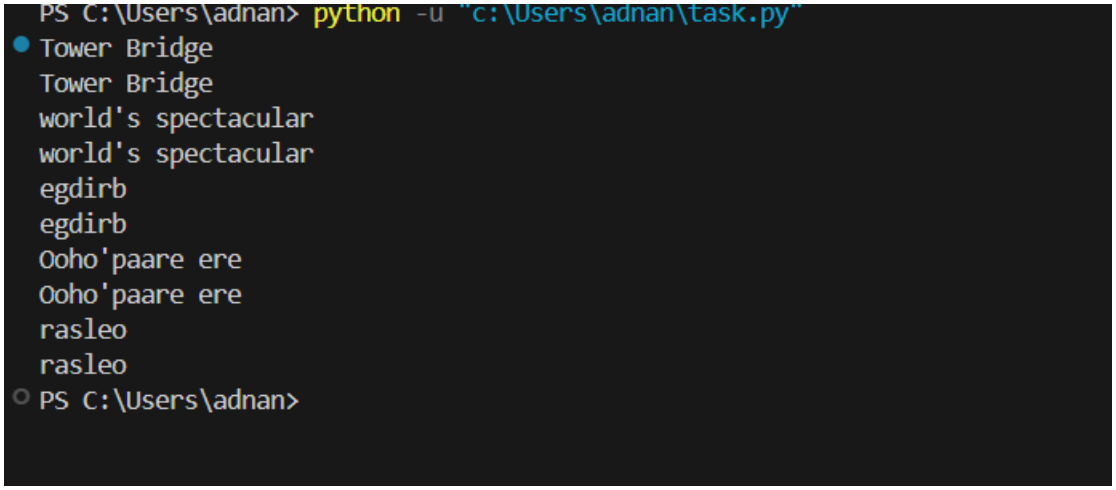
print(s[0::4])

print(s[-53::4])

#rasleo

print(s[29:3:-5])

print(s[-24:-50:-5])



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.

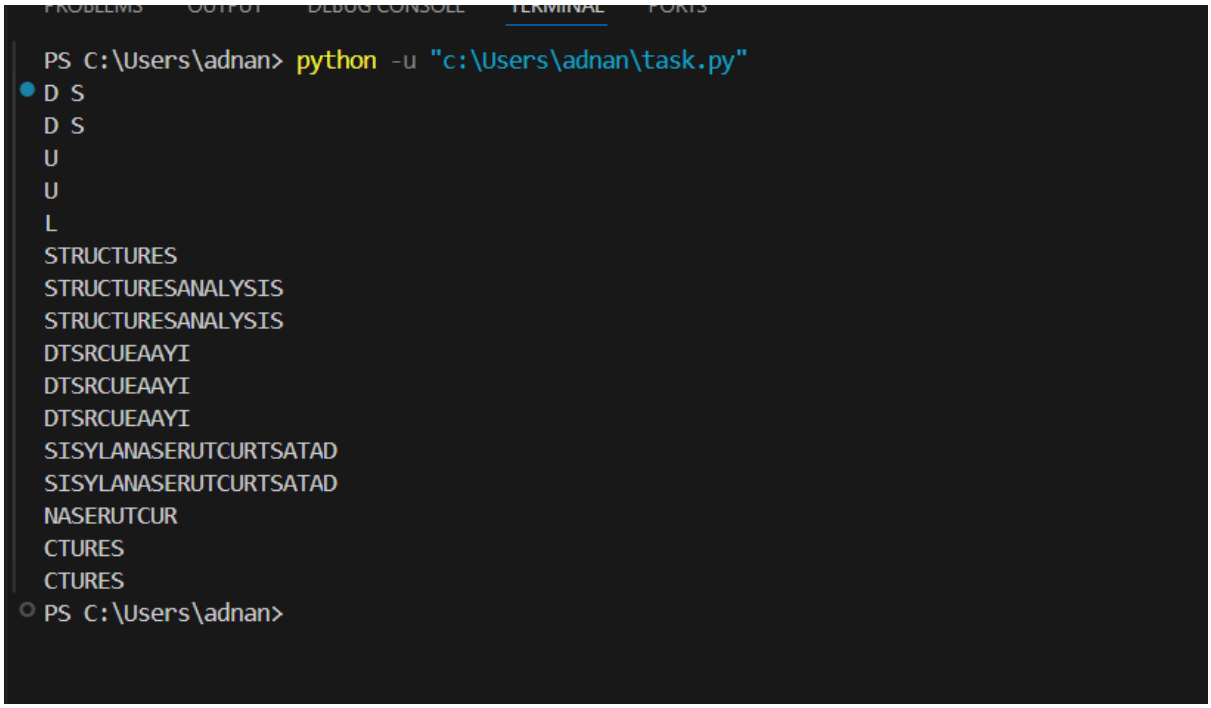
10. Print the middle 6 characters using indexing.

```
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])



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
```