

DAY 2 TASK.py - C:/Users/kbsub/OneDrive/Desktop/internship/DAY 2 TASK.py (3.10.0)

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Task 1: String Slicing

```
a = "ABCDEFGHIJKLM"  
# CEGI  
print(a[2:10:2])  
print(a[-10:-3:2])  
# KJIHGFED  
print(a[10:2:-1])  
print(a[-2:-10:-1])  
# KJIHGFEDCB  
print(a[10:0:-1])  
print(a[-2:-12:-1])  
# KIGE  
print(a[10:3:-2])  
print(a[-2:-9:-2])  
# AEI  
print(a[0:10:4])  
print(a[-12:-3:4])  
  
print("=" * 60)
```

Task 2: String Slicing

```
b = "Python String Slicing Example"  
# gnirttnS nohtyP  
print(b[12::-1])  
print(b[-17::-1])  
# Slicing Example  
print(b[-15::1])  
print(b[-15::1])  
# emEni is oy  
print(b[-1::-3])  
print(b[-1:-29:-3])  
# Potgigae  
print(b[0::4])  
print(b[-29::4])  
# elpmaxe  
print(b[-1:-8:-1])  
print(b[-1:-8:-1])  
# gtop  
print(b[12::-4])  
print(b[-17::-4])  
  
print("=" * 60)
```

```
# Task 3: String Slicing

c = "Python is easy to learn"
# easy
print(c[10:14:1])
print(c[-13:-9:1])
# rae
print(c[-2:-5:-1])
print(c[-2:-5:-1])
# es ola
print(c[10:21:2])
print(c[-13:-2:2])
# si nohtyP
print(c[8::-1])
print(c[-15::-1])
# tnsa a
print(c[2:21:3])
print(c[-21:-2:3])
# nhý
print(c[5::-2])
print(c[-18:-23:-2])
# easy to learn
print(c[10::1])
print(c[-13::1])
# ot ysaé
print(c[-7:-15:-1])
print(c[-7:-14:-1])

print("=" * 60)

# Task 4: String Slicing

d = "One of the world's spectacular bridge is Tower Bridge"
# Tower Bridge
print(d[-12:])
print(d[-12::1])
# world's spectacular
print(d[11:30])
print(d[-42:-22])
# eqdirb
```

```
print(d[-42:-22])
# egdirb
print(d[36:30:-1])
print(d[-17:-24:-1])
# Ooho'paare ere
print(d[::-4])
print(d[-53::4])
# rasleo
print(d[29::-5])
print(d[-24:-50:-5])

print("=". * 60)

# Task 5: DATASTRUCTURESANALYSIS

x = "DATASTRUCTURESANALYSIS"
#print the first and last character using index values.
print(x[0], x[-1])
#print the character at index 7.
print(x[7])
#print the character at index -5.
print(x[-5])
#print characters from index 4 to 13.
print(x[4:14])
#print the string without the first 4 characters.
print(x[4:])
#print every second character starting from index 0.
print(x[0::2])
#print characters at even index positions only.
print(x[::-2])
#print the entire string in reverse order.
print(x[::-1])
#print characters from index 15 to index 5 in reverse.
print(x[15:4:-1])

mid = len(x) // 2
print(x[mid-3:mid+3])

print("=". * 60)

# Task 6: LogicalThinking

y = "LogicalThinking"
```

```
# Task 6: LogicalThinking
```

```
y = "LogicalThinking"  
# Thinking  
print(y[7:])  
print(y[-8:-1])  
# gniknihTlacigoL  
print(y[::-1])  
print(y[-1:-16:-1])  
# LgLTiki  
print(y[0::2])  
print(y[-15::2])  
# lacigo  
print(y[6:0:-1])  
print(y[-9:-15:-1])  
# giTk  
print(y[2:12:3])  
print(y[-13:-3:3])  
  
print("=" * 60)
```

```
> ===== RESTART: C:/Users/krsu/OneDrive/Desktop/internship/DAY 2 TASK.py =====
```

```
CEGI
```

```
CEGI
```

```
KJIHGFED
```

```
KJIHGFED
```

```
KJIHGFEDCB
```

```
KJIHGFEDCB
```

```
KIGE
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KIGE
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```
AEI
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AEI
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```
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```

```
gnirts nohtyP
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gnirts nohtyP
```

```
Slicing Example
```

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Slicing Example
```

```
emEni iSoy
```

```
emEni iSoy
```

```
Potgigae
```

```
Potgigae
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elpmaxE
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elpmaxE
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gtoP
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gtoP
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```
=====
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```
easy
```

```
easy
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rae
```

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rae
```

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es ola
```

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es ola
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```
si nohtyP
```

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si nohtyP
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tnsa a
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tnsa a
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nhy
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nhy
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```
easy to learn
```

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easy to learn
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```
ot ysae
```

```
ot ysae
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```
=====
```

=====

Tower Bridge
Tower Bridge
world's spectacular
world's spectacular
egdirb
egdirb
Ooho'paare ere
Ooho'paare ere
rasleo
rasleo

=====

D S
U
L
STRUCTURES
STRUCTURESANALYSIS
DTSRCUEAAYI
DTSRCUEAAYI
SISYLANASERUTCURTSATAD
NASERUTCURT
CTURES

=====

Thinking
Thinking
gniknihTlacigoL
gniknihTlacigoL
Lgclhnig
Lgclhnig
lacigo
lacigo
gahk
gahk

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