

Task 1: String Slicing

```
a = "ABCDEFGHIJKL"
# 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"
# gnirtnS 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])
# nhY
print(c[5::-2])
print(c[-18:-23:-2])
# easy to learn
print(c[10::1])
print(c[-13::1])
# ot ysae
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/krsb/OneDrive/Desktop/internship/DAY 2 TASK.py =====
```

```
CEGI
```

```
CEGI
```

```
KJHGFED
```

```
KJHGFED
```

```
KJHGFEDCB
```

```
KJHGFEDCB
```

```
KIGE
```

```
KIGE
```

```
AEI
```

```
AEI
```

```
=====
```

```
gnirts nohtyP
```

```
gnirts nohtyP
```

```
Slicing Example
```

```
Slicing Example
```

```
emEni iSoy
```

```
emEni iSoy
```

```
Potgigae
```

```
Potgigae
```

```
elpmaxE
```

```
elpmaxE
```

```
gtoP
```

```
gtoP
```

```
=====
```

```
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
```

```
=====
```

```
=====
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
=====
|
```