Day 4

Strings in Python:

What is a String?

A string is a collection of characters (letters, numbers, symbols) written inside quotes. Strings are used to store text data.

How to Create a String?

You can use:

- Single quotes ' '
- Double quotes " "
- Triple quotes ''' ''' or """ """

Example:

Example: printing double quotes using the single quote.

Example: using triple quotes for strings in multiple line.

```
10    message = '''Aditya
11    Are you good?
12    Yes I am fine.'''
13    print(message)
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL   POR

```
PS E:\Python\Day1-10\Day4> python main.py
Aditya
Are you good?
Yes I am fine.
```

Example: accessing characters in the string.

```
15    name = "Aditya"
16    print(name[0])
17    print(name[1])
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL

```
PS E:\Python\Day1-10\Day4> python main.py
A
d
```
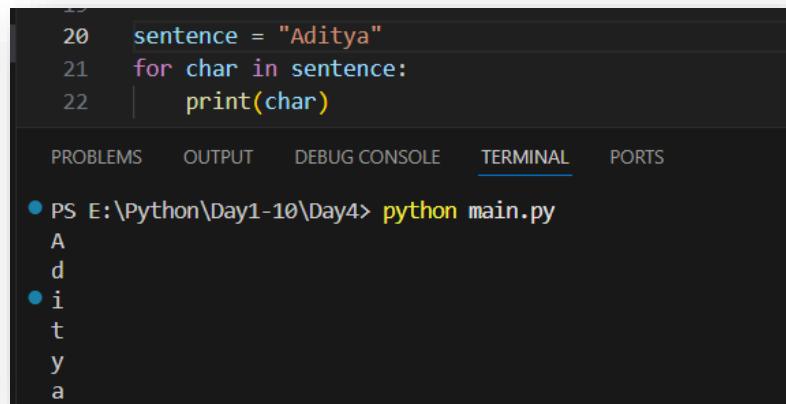
Example: printing the index which doesn't exists.

```
15    name = "Aditya"
16    print(name[0])
17    print(name[1])
18    print(name[6])
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL   PORTS

```
PS E:\Python\Day1-10\Day4> python main.py
A
d
Traceback (most recent call last):
    File "E:\Python\Day1-10\Day4\main.py", line 18, in <module>
        print(name[6])
              ~~~~^^^
IndexError: string index out of range
```

Example: printing the character of the string using the for...in loop.

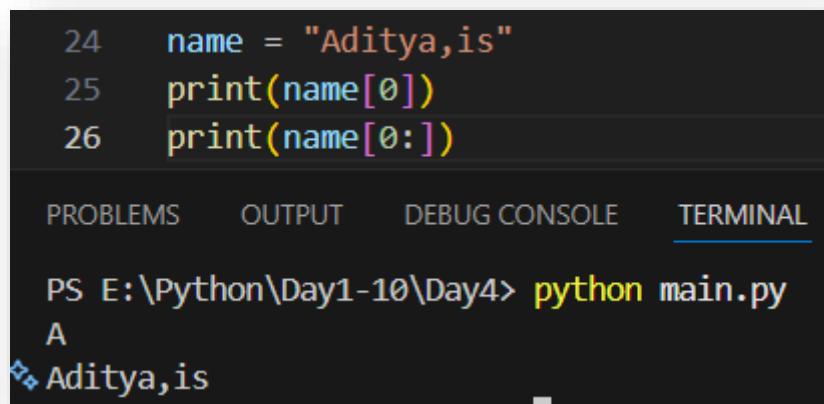## String Slicing in Python:

What is String Slicing?

String slicing means getting a part of a string.

Syntax:

string[start : end]

- start → starting index (included)
- end → ending index (excluded)

Example: [0:]

Example: [0:4]

```
24    name = "Aditya,is"
25    print(name[0])
26    print(name[0:4])
```

```
PROBLEMS    OUTPUT    DEBUG CONSOLE    TERMINAL
PS E:\Python\Day1-10\Day4> python main.py
A
Adit
```

Example: [:4]

```
23
24    name = "Aditya,is"
25    print(name[0:4])
26    print(name[:4])
27
```

```
PROBLEMS    OUTPUT    DEBUG CONSOLE    TERMINAL
PS E:\Python\Day1-10\Day4> python main.py
Adit
Adit
```

Example: [:-1]

```
28    name = "Aditya,is"
29    print(name[:-1])
```

```
PROBLEMS    OUTPUT    DEBUG CONSOLE    TERMINAL
PS E:\Python\Day1-10\Day4> python main.py
Aditya,i
```

--The End—