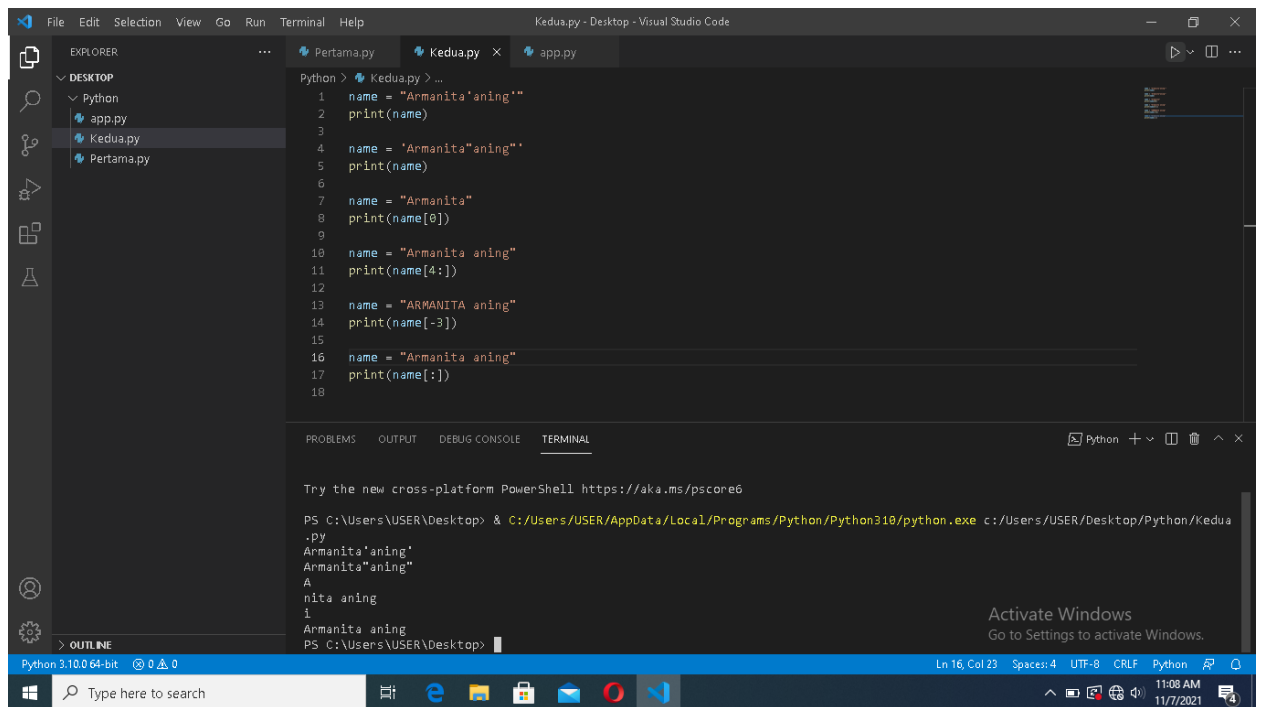


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NIM : 20.01.013.002

PRODI : TEKNIK INFORMATIKA

## 1. STRING



The screenshot shows the Visual Studio Code interface with a Python file named `Kedua.py` open. The file contains 18 lines of Python code demonstrating various string operations. The terminal at the bottom shows the command to run the script and its output.

```
Python > Kedua.py > ...
1 name = "Armanita'aning"
2 print(name)
3
4 name = 'Armanita"aning"'
5 print(name)
6
7 name = "Armanita"
8 print(name[0])
9
10 name = "Armanita aning"
11 print(name[4:])
12
13 name = "ARMANITA aning"
14 print(name[-3])
15
16 name = "Armanita aning"
17 print(name[:])
18
```

Terminal Output:

```
Try the new cross-platform PowerShell https://aka.ms/pscore6
PS C:\Users\USER\Desktop> & C:/Users/USER/AppData/Local/Programs/Python/Python310/python.exe c:/Users/USER/Desktop/Python/Kedua
.py
Armanita'aning'
Armanita"aning"
A
nita aning
i
Armanita aning
PS C:\Users\USER\Desktop>
```

## 2. FORMATED STRING

The screenshot shows the Visual Studio Code interface with a Python file named `app.py` open. The Explorer sidebar on the left shows the file structure under `DESKTOP` with files `app.py`, `Kedua.py`, and `Pertama.py`. The main editor displays the following Python code:

```
1 first_name = "Armanita"
2 last_name = "Aning"
3
4 message = first_name + " [" + last_name + "]"
5 message = f"{first_name} [{last_name}]"
6
7 print(message)
8
9 age = 19
10
11 message = f"Umur kamu {age}"
12
13 print(message)
```

The TERMINAL panel at the bottom shows the command prompt output:

```
Windows PowerShell
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Try the new cross-platform PowerShell https://aka.ms/pscore6

PS C:\Users\USER\Desktop> & C:/Users/USER/AppData/Local/Programs/Python/Python310/python.exe c:/Users/USER/Desktop/Python/app.py
Armanita [Aning]
Umur kamu 19
PS C:\Users\USER\Desktop>
```

### 3. STRING METHOD

The screenshot shows the Visual Studio Code interface with a Python file named `app.py` open. The Explorer sidebar on the left shows the file structure under `DESKTOP` with files `app.py`, `Kedua.py`, and `Pertama.py`. The main editor displays the following Python code demonstrating various string methods:

```
1 course = "Belajar Python Bareng Armanita Aning"
2 length = len(course)
3
4 print(length)
5
6 course = "Belajar Python Bareng Armanita Aning"
7 print(course.upper())
8 print(course)
9
10 course = "Belajara Python Bareng Armanita Aning"
11 course_capital = course.upper()
12 print(course_capital)
13
14 course = "Belajar Python Bareng Armanita Aning"
15 print(course.lower())
16
17 course = "belajar python bareng armanita aning"
18 print(course.capitalize())
19
20 course = "belajar python bareng armanita aning"
21 print(course.title())
22
23 course = "belajar python bareng armanita aning"
24 print(course.replace("python", "javascript"))
25
26 course = "belajar python bareng armanita aning"
27 language = "python"
28 print(language in course)
29
30 course = "belajar python bareng armanita aning"
31 language = "javascrip"
32 print(language in course)
```

The screenshot shows the Visual Studio Code interface with a Python file named `app.py` open. The Explorer sidebar on the left shows the file structure: `DESKTOP` > `Python` > `app.py`, `Kedua.py`, and `Pertama.py`. The main editor displays the following Python code:

```
1 course = "Belajar Python Bareng Armanita Aning"
2 length = len(course)
3
4 print(length)
5
6 course = "Belajar Python Bareng Armanita Aning"
7 print(course.upper())
8 print(course)
9
10 course = "Belajara Python Bareng Armanita Aning"
11 course_capital = course.upper()
12 print(course_capital)
13
14 course = "Belajar Python Bareng Armanita Aning"
15 print(course.lower())
16
17 course = "belajar python bareng armanita aning"
18 print(course.capitalize())
19
20 course = "belajar python bareng armanita aning"
```

The TERMINAL panel at the bottom shows the output of the script:

```
y
36
BELAJAR PYTHON BARENG ARMANITA ANING
Belajar Python Bareng Armanita Aning
BELAJARA PYTHON BARENG ARMANITA ANING
belajar python bareng armanita aning
Belajar python bareng armanita aning
Belajar Python Bareng Armanita Aning
belajar javascript bareng armanita aning
True
False
PS C:\Users\USER\Desktop>
```

The status bar at the bottom indicates the Python 3.10.0 64-bit interpreter is active, with the cursor at line 32, column 26. The system clock shows 2:13 PM on 11/7/2021.

#### 4. MATEMATIKA

The screenshot shows the Visual Studio Code interface with a Python file named `app.py` open. The Explorer sidebar on the left shows the file structure: `DESKTOP` > `Python` > `app.py`, `Kedua.py`, and `Pertama.py`. The main editor displays the following Python code:

```
1 x = 40
2 y = 10
3 print(x + y)
4
5 x = 20
6 y = 10
7 print(x - y)
8
9 x = 20
10 y = 10
11 print(x * y)
12
13 x = 20
14 y = 10
15 print(x / y)
16
17 x = 20
18 y = 10
19 print(x ** y)
20
21 x = 20
22 y = 10
23 print(x % y)
24
25 x = 20
26 y = 10
27 print(x)
28
29 x = 20
30 y = 10
31 print(y)
```

The status bar at the bottom indicates the Python 3.10.0 64-bit interpreter is active, with the cursor at line 31, column 9. The system clock shows 2:21 PM on 11/7/2021.

The screenshot shows the Visual Studio Code interface with a Python file named 'app.py' open. The Explorer sidebar on the left shows the file structure under 'DESKTOP' and 'Python'. The main editor displays the following code:

```
Python > app.py > ...
5 x = 20
6 y = 10
7 print(x - y)
8
9 x = 20
10 y = 10
11 print(x * y)
12
13 x = 20
14 y = 10
15 print(x / y)
16
17 x = 20
18 y = 10
19 print(x ** y)
20
21 x = 20
22 y = 10
23 print(x % y)
```

The TERMINAL panel at the bottom shows the command to run the script and its output:

```
PS C:\Users\USER\Desktop> & C:/Users/USER/AppData/Local/Programs/Python/Python310/python.exe c:/Users/USER/Desktop/Python/app.p
y
30
10
200
2.0
1024000000000000
0
10
10
10
10
PS C:\Users\USER\Desktop>
```

## 5. OPERATOR PRECEDENCE

The screenshot shows the Visual Studio Code interface with a Python file named 'app.py' open. The Explorer sidebar on the left shows the file structure under 'DESKTOP' and 'Python'. The main editor displays the following code:

```
Python > app.py > ...
1 number = 20 + 30
2 print(number)
3
4 number = 20 + (30*4)
5 print(number)
6
7 number = (20 + 30) * 4 ** 5
8 print(number)
9
10 number = 20 - 30
11 print(number)
12
13 number = 20 - (30 * 4)
14 print(number)
15
16 number = (20 - 30) * 4 ** 5
17 print(number)
18
19 #tanda kurung
20 #perkalian
21 #perpangkatan dan pembagian
22 #penjumlahan atau pengurangan
23
```

The screenshot shows the Visual Studio Code interface with a Python file named `app.py` open. The Explorer sidebar on the left shows the file structure: `DESKTOP` > `Python` > `app.py`, `Kedua.py`, and `Pertama.py`. The main editor displays the following Python code:

```
Python > app.py > ...
1 number = 20 + 30
2 print(number)
3
4 number = 20 + (30*4)
5 print(number)
6
7 number = (20 + 30) * 4 ** 5
8 print(number)
9
10 number = 20 - 30
11 print(number)
12
13 number = 20 - (30 * 4)
14 print(number)
15
16 number = (20 - 30) * 4 **5
17 print(number)
18
19 #tanda kurung
```

The TERMINAL panel at the bottom shows the command prompt output:

```
Try the new cross-platform PowerShell https://aka.ms/pscore6

PS C:\Users\USER\Desktop> & C:/Users/USER/AppData/Local/Programs/Python/Python310/python.exe c:/Users/USER/Desktop/Python/app.py
50
140
51200
-10
-100
-10240
PS C:\Users\USER\Desktop>
```

## 6. MATH MODULE

The screenshot shows the Visual Studio Code interface with a Python file named `app.py` open. The Explorer sidebar on the left shows the file structure: `DESKTOP` > `Python` > `app.py`, `Kedua.py`, and `Pertama.py`. The main editor displays the following Python code:

```
Python > app.py > ...
1 number = 10.2
2 number = round(number)
3 print(number)
4
5 number = 8.2
6 number = round(number)
7 print(number)
8
9 import math
10
11 number = 10.2
12 number = math.ceil(number)
13 print(number)
14
15 import math
16
17 number = 8.2
18 number = math.floor(number)
19 print(number)
```

The TERMINAL panel at the bottom shows the command prompt output:

```
Windows PowerShell
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Try the new cross-platform PowerShell https://aka.ms/pscore6

PS C:\Users\USER\Desktop> & C:/Users/USER/AppData/Local/Programs/Python/Python310/python.exe c:/Users/USER/Desktop/Python/app.py
10
8
11
8
PS C:\Users\USER\Desktop>
```

An "Activate Windows" watermark is visible in the bottom right corner of the terminal area.