## **MODULE 3 – TEKNOLOGI DATA**

To run Python practices below, you can use a Python IDE's such as Google Colab, PyCharm, Visual Studio Code etc. For the Google Colab, you can follow the tutorial from the following link: <a href="https://www.geeksforgeeks.org/how-to-use-google-colab/">https://www.geeksforgeeks.org/how-to-use-google-colab/</a>.

1. If-Else



2. The addition of integers

3. Array

4. Multiple addition operations in one command line

```
x = 100; y=150; z=22.56; hasil = x+2*y*z
print(hasil)

5. A code comment
# This is a comment
print ("Hello!") # This is also a comment as a code documentation

OUTPUT
Hello!
```

6. Assigning variables to values

```
counter = 100
                  # integer value assignment
jarak = 104.5
name = "nina"
a = b = c = 200
                                                                                  104.5
name, city, salary = "Sabine", 'Surabaya', 70000
                                                                  OUTPUT
                                                                                  Sabine
                                                                                  200 200 200
                                                                                   Surabaya
print(counter)
print(jarak)
print(name)
print(a, b, c)
print(city)
```

7. Python conditions

```
print(True or False) # output : True

print(True and False) # output : False

print ( 100 > 200) # output : False

a=9
print ( a > 0 ) # output : True

b= 10
print ( a > b ) # output : False
```

8. The type() function

```
x = None
print(type(x))  # output: NoneType

print(x == None)  # output: True
print(x)  # output: None
OUTPUT

OUTPUT

None

None
```

9. Input in Python

```
name = input('What is your name? ')
print('Hi ' + name + '!')
OUTPUT
What is your name? Python!
```

m of several lines and sentence

10. Paragraf

```
nama = 'Sabine'
kalimat = "This is a sentence."

Paragraf = """This is a paragraph.
Paragraphs are made up of several lines and sentences."""

print(nama)
print(kalimat)
print(Paragraf)

print(nama[0:5])
print(nama[2:])
print(kalimat[-8:-1])
```

11. String Operations

```
myStr = 'Hello, Surabaya'
print(len(myStr))

pegawai = 'Sabine'
print ("nama : " , pegawai)
print("pass" + "word")

#age = 35
#mytext = 'Age is '
#print(mytext + age) # Error

age = 35
mytext = 'Age is '
print(mytext + str(age))

print("Python " * 3)
OUTPUT

15
nama : Sabine
password
Age is 35
Python Python Python Python

age = 35
mytext = 'Age is '
print(mytext + str(age))
```

12. Double in Single

```
# 'Double' in Single
print('Double" in Single') # hasil : "Double" in Single
# "Double" in Double
print("\"Double\" in Double\") # hasil : "Double" in Double
"Double" in Double
```

13. String Manipulation

```
s = "SaMurai"
s.lower() # 'samurai'
print(s) # 'SaMurai'
s2 = s.lower()
print(s2) #'samurai'

name = input('What is your name? ')

print('Hi ' + name + '!')
OUTPUT

SaMurai
samurai
What is your name? Samurai!
```

14. Variable Conversion

## **Submission Instructions:**

- 1. A class leader should create a storage in Google Drive for storing all class assignments for the course of Teknologi Data.
- 2. Next, it is required to create a folder, called, Week 3.
- 3. Each student creates a folder with their respective names in the Week 3 folder.
- 4. Each student works on assignments from numbers 1 to 15 and stores each number with the file name as follows: NIM, question number.py (for example: 1234567\_1.py). All python files are stored in their respective folders.

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