Tugas Praktikum Pemrograman II

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D4 TI 2B

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PROGRAM DIPLOMA IV POLITEKNIK POS INDONESIA

POLITEKNIK POS INDONESIA

BANDUNG

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Chapter 3
Pemrograman Dasar

A Teori

1. Fungsi

   Fungsi : bagian dari program yang dapat digunakan ulang untuk melakukan sebuah tindakan.fungsi dapat dipanggil pada fungsi lain, fungsi pada python yaitu def.

   Inputan fungsi : untuk mengambil data

   Contoh :

```
def fungsi (a.t):
    b=a*t
    return b
```

2. Paket

   Paket : modul yang berisi kode-kode dan bisa di impor kedalam program

   Cara pemanggilan paket :

```
from lib3 import kelas3lib
```

3. Kelas, objek, atribut, method

   Kelas : sebuah blueprint dari sebuah objek

   contoh :

   class syabriena:

   Objek : hasil cetak dari kelas

   Contoh :

   class TI: dari_kelas = ”2B” syabriena = TI()

Atribut : variabel yang dideklarasikan

Contoh :

Method : fungsi pada objek.

Contoh :

4. Cara pemanggilan library

   Contoh :

```
#buat library pada folder lib3
def test():
    print("test")

#import
import lib

#panggil fungsi dari library
lib.test()
```

5. Pemakaian paket dengan from kalkulator import penambahan

```
from kalkulator import penambahan

#artinya memanggil package lalu tambahkan kode penambahan
#bisa dibaca dengan import penambahan dari folder kalkulator
#contoh
from lib3 import kelas3lib
```

6. Paket fungsi apabila file library ada di dalam folder

```
#Pemakaian paket fungsi bila file library ada di dalam folder
#Tuliskan foldernya kemudian import library

from lib3 import kelas3lib
```

7. Paket kelas apabila file library ada di dalam folder

```
#Pemanggilan class dalam folder
#Tulis folder lalu import class

from lib3 import kelas3lib
```

B Keterampilan Pemrograman

1. Soal 1

```
def NPM1():
    npm = input("NPM: ")
    val = int(npm)

    modulus = val % 3
    print("Modulus Npm anda: ")
    print(modulus)

    if (modulus == 0):
        print("*** *** ******** *** *** ********* ******** ***
        print("*** *** **    ** *** *** *** *** *** *** ***
        print("*** *** ******** ******** *** *** ******** ***
        print("*** *** **    ** **      *** *** *** ******* ****
        print("*** *** ******** ******** *** *** ********* ****
```

2. Soal 2

```
def NPM2():
    npm = input("NPM: ")
    val = int(npm[5:7])

    print("Input: "+npm)
    print("Output: ")

    while val > 0:
        print("Hallo, "+npm+" Apa Kabar?")
        val = val - 1
```

3. Soal 3

```
def NPM3():
    npm = input("NPM: ")

    val = int(npm[4])
    val2 = int(npm[5])
    val3 = int(npm[6])

    subs = val + val2 + val3

    print("Input: "+npm)
    print("Output: ")

    while subs > 0:
        print("Hallo, "+npm[4:7]+" Apa Kabar?")
        subs = subs - 1
```

4. Soal 4

```
def NPM4():
    npm = input("NPM: ")

    print("Input: "+npm)
    print("Output: ")
    print("Hallo, "+npm[4]+" Apa Kabar?")
```

5. Soal 5

```
def NPM5():
    i=0
    npm = input("NPM: ")
    while i<1:
        if len(npm)<7:
            print("npm kurang dari 7")
            npm = input("NPM: ")
        elif len(npm)>7:
            print("npm lebih dari 7")
            npm = input("NPM: ")
        else:
            i=1

    a=npm[0]
    b=npm[1]
    c=npm[2]
    d=npm[3]
    e=npm[4]
    f=npm[5]
    g=npm[6]

    for x in a,b,c,d,e,f,g:
```

```
        print(x, end = ""),
```

6. Soal 6

```
def NPM6():
    i=0
    npm = input("NPM: ")
    while i<1:
        if len(npm)<7:
            print("npm kurang dari 7")
            npm = input("NPM: ")
        elif len(npm)>7:
            print("npm lebih dari 7")
            npm = input("NPM: ")
        else:
            i=1

    a=npm[0]
    b=npm[1]
    c=npm[2]
    d=npm[3]
    e=npm[4]
    f=npm[5]
    g=npm[6]

    y=0


    for x in a,b,c,d,e,f,g:
        y+=int(x)
    print(y)
```

7. Soal 7

```
def NPM7():
    i=0
    npm = input("NPM: ")
    while i<1:
        if len(npm)<7:
            print("npm kurang dari 7")
            npm = input("NPM: ")
        elif len(npm)>7:
            print("npm lebih dari 7")
            npm = input("NPM: ")
        else:
            i=1

    a=npm[0]
    b=npm[1]
    c=npm[2]
    d=npm[3]
    e=npm[4]
    f=npm[5]
    g=npm[6]

    conv=1

    for x in a,b,c,d,e,f,g:
        conv*=int(x)
    print(conv)
```

8. Soal 8

```
def NPM8():
```

```
    i=0
    npm = input("NPM: ")
    while i<1:
        if len(npm)<7:
            print("npm kurang dari 7")
            npm = input("NPM: ")
        elif len(npm)>7:
            print("npm lebih dari 7")
            npm = input("NPM: ")
        else:
            i=1

    a=npm[0]
    b=npm[1]
    c=npm[2]
    d=npm[3]
    e=npm[4]
    f=npm[5]
    g=npm[6]

    for x in a,b,c,d,e,f,g:
        print(x)
```

9. Soal 9

```
def NPM9():
    i=0
    npm = input("NPM: ")
    while i<1:
        if len(npm)<7:
            print("npm kurang dari 7")
```

```
            npm = input("NPM: ")
        elif len(npm)>7:
            print("npm lebih dari 7")
            npm = input("NPM: ")
        else:
            i=1

    a=npm[0]
    b=npm[1]
    c=npm[2]
    d=npm[3]
    e=npm[4]
    f=npm[5]
    g=npm[6]


    for x in a,b,c,d,e,f,g:

        if int(x)%2==0:
            if int(x)==0:
                x=""
            print(x,end ="")
```

10. Soal 10

```
def NPM10():
    i=0
    npm = input("NPM: ")
    while i<1:
        if len(npm)<7:
            print("npm kurang dari 7")
```

```
        npm = input("NPM: ")
    elif len(npm)>7:
        print("npm lebih dari 7")
        npm = input("NPM: ")
    else:
        i=1

a=npm[0]
b=npm[1]
c=npm[2]
d=npm[3]
e=npm[4]
f=npm[5]
g=npm[6]



for x in a,b,c,d,e,f,g:

    if int(x)%2==1:
        print(x,end="")
```

11. Soal 11

```
#soal1
def NPM1():
    npm = input("NPM: ")
    val = int(npm)

    modulus = val % 3
    print("Modulus Npm anda: ")
```

```
    print(modulus)

    if (modulus == 0):
        print("***␣***␣********␣***␣␣***␣*********␣********␣***
        print("***␣***␣**␣␣␣␣**␣***␣␣***␣***␣␣␣***␣***␣␣***␣***
        print("***␣***␣********␣********␣***␣␣␣***␣********␣***
        print("***␣***␣**␣␣␣␣**␣␣␣␣␣␣***␣***␣␣␣***␣␣␣␣␣␣***␣␣␣␣
        print("***␣***␣********␣␣␣␣␣␣***␣*********␣********␣␣␣␣

#soal2
def NPM2():
    npm = input("NPM:␣")
    val = int(npm[5:7])

    print("Input:␣"+npm)
    print("Output:␣")

    while val > 0:
        print("Hallo,␣"+npm+"␣Apa␣Kabar?")
        val = val - 1

#soal3
def NPM3():
    npm = input("NPM:␣")

    val = int(npm[4])
    val2 = int(npm[5])
    val3 = int(npm[6])
```

```
    subs = val + val2 + val3

    print("Input: "+npm)
    print("Output: ")

    while subs > 0:
        print("Hallo , "+npm[4:7]+" Apa Kabar?")
        subs = subs - 1

#soal4
def NPM4():
    npm = input("NPM: ")

    print("Input: "+npm)
    print("Output: ")
    print("Hallo , "+npm[4]+" Apa Kabar?")

#soal5
def NPM5():
    i=0
    npm = input("NPM: ")
    while i<1:
        if len(npm)<7:
            print("npm kurang dari 7")
            npm = input("NPM: ")
        elif len(npm)>7:
            print("npm lebih dari 7")
            npm = input("NPM: ")
        else:
```

```
            i=1

    a=npm[0]
    b=npm[1]
    c=npm[2]
    d=npm[3]
    e=npm[4]
    f=npm[5]
    g=npm[6]

    for x in a,b,c,d,e,f,g:
        print(x, end = ""),

#soal6
def NPM6():
    i=0
    npm = input("NPM: ")
    while i<1:
        if len(npm)<7:
            print("npm kurang dari 7")
            npm = input("NPM: ")
        elif len(npm)>7:
            print("npm lebih dari 7")
            npm = input("NPM: ")
        else:
            i=1

    a=npm[0]
    b=npm[1]
```

```
    c=npm[2]
    d=npm[3]
    e=npm[4]
    f=npm[5]
    g=npm[6]

    y=0


    for x in a,b,c,d,e,f,g:
        y+=int(x)
    print(y)

#soal7
def NPM7():
    i=0
    npm = input("NPM: ")
    while i<1:
        if len(npm)<7:
            print("npm kurang dari 7")
            npm = input("NPM: ")
        elif len(npm)>7:
            print("npm lebih dari 7")
            npm = input("NPM: ")
        else:
            i=1

    a=npm[0]
    b=npm[1]
```

```
    c=npm[2]
    d=npm[3]
    e=npm[4]
    f=npm[5]
    g=npm[6]

    conv=1

    for x in a,b,c,d,e,f,g:
        conv*=int(x)
    print(conv)

#soal8
def NPM8():
    i=0
    npm = input("NPM: ")
    while i<1:
        if len(npm)<7:
            print("npm kurang dari 7")
            npm = input("NPM: ")
        elif len(npm)>7:
            print("npm lebih dari 7")
            npm = input("NPM: ")
        else:
            i=1

    a=npm[0]
    b=npm[1]
    c=npm[2]
```

```
    d=npm[3]
    e=npm[4]
    f=npm[5]
    g=npm[6]

    for x in a,b,c,d,e,f,g:
        print(x)

#soal9
def NPM9():
    i=0
    npm = input("NPM: ")
    while i<1:
        if len(npm)<7:
            print("npm kurang dari 7")
            npm = input("NPM: ")
        elif len(npm)>7:
            print("npm lebih dari 7")
            npm = input("NPM: ")
        else:
            i=1

    a=npm[0]
    b=npm[1]
    c=npm[2]
    d=npm[3]
    e=npm[4]
    f=npm[5]
    g=npm[6]
```

```
    for x in a,b,c,d,e,f,g:

        if int(x)%2==0:
            if int(x)==0:
                x=""
            print(x,end ="")

#soal10
def NPM10():
    i=0
    npm = input("NPM: ")
    while i<1:
        if len(npm)<7:
            print("npm kurang dari 7")
            npm = input("NPM: ")
        elif len(npm)>7:
            print("npm lebih dari 7")
            npm = input("NPM: ")
        else:
            i=1

    a=npm[0]
    b=npm[1]
    c=npm[2]
    d=npm[3]
    e=npm[4]
    f=npm[5]
```

```
    g=npm[6]



    for x in a,b,c,d,e,f,g:

        if int(x)%2==1:
            print(x,end="")

#soal11
def NPM11():
    i=0
    npm = input("NPM: ")
    while i<1:
        if len(npm)<7:
            print("npm kurang dari 7")
            npm = input("NPM: ")
        elif len(npm)>7:
            print("npm lebih dari 7")
            npm = input("NPM: ")
        else:
            i=1


    a=npm[0]
    b=npm[1]
    c=npm[2]
    d=npm[3]
    e=npm[4]
    f=npm[5]
```

```
g=npm[6]

for x in a,b,c,d,e,f,g:
    if int(x) > 1:
        for i in range(2,int(x)):
            if (int(x) % i) == 0:
                break
        else:
            print(int(x),end ="")
```

12. Soal 12

```
import lib3
class syab:
    def __init__(self,npm):
        self.npm = npm
    def NPM1(self):
        return lib3.NPM1()
    def NPM2(self):
        return lib3.NPM2(self.npm)
    def NPM3(self):
        return lib3.NPM3(self.npm)
    def NPM4(self):
        return lib3.NPM4(self.npm)
    def NPM5(self):
        return lib3.NPM5(self.npm)
    def NPM6(self):
        return lib3.NPM6(self.npm)
    def NPM7(self):
        return lib3.NPM7(self.npm)
    def NPM8(self):
```

```
        return lib3.NPM8(self.npm)
    def NPM9(self):
        return lib3.NPM9(self.npm)
    def NPM10(self):
        return lib3.NPM10(self.npm)
    def NPM11(self):
        return lib3.NPM11(self.npm)
```

C Keterampilan Penanganan Error

```
  File "E:/TUGAS_TI/Kampus/Pemrograman/Pemrograman2/Chapter/Syabriena Putri
Veriane(1184094)/src/main.py", line 5, in <module>
    hasilkelas=cobakelas.NPM2()

  File "E:\TUGAS_TI\Kampus\Pemrograman\Pemrograman2\Chapter\Syabriena Putri
Veriane(1184094)\src\kelas3lib.py", line 8, in NPM2
    return lib3.NPM2(self.npm)

TypeError: NPM2() takes 0 positional arguments but 1 was given


In [2]:

In [2]:
```

Solusi : tambahkan parameter pada fungsi NPM2().

Try Except:

```
def bagi(a,t):
    b = a/t
    return b

siji = int(input("angka 1: "))
loro = int(input("angka 2: "))

try:
```

```
        print(pembagi(siji,loro))
    except:
        print("tidak bisa dibagi 0")
```