Nama: Fakhar Swastika Al Baihaqi

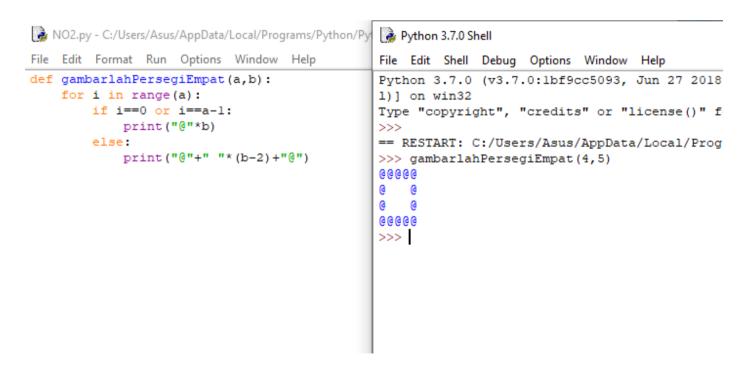
NIM : L200180183

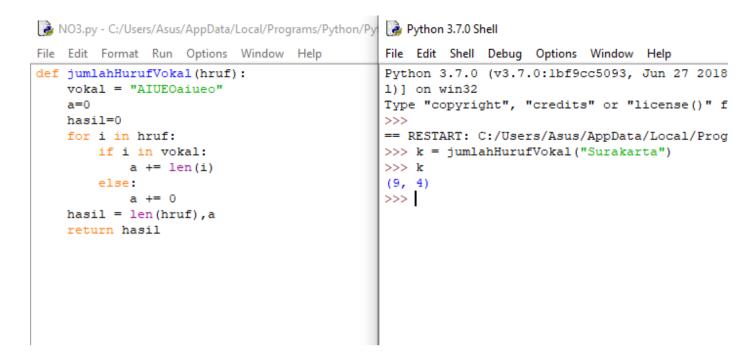
Kelas: G

# MODUL 1 SOAL-SOAL MAHASISWA

### Nomor 1







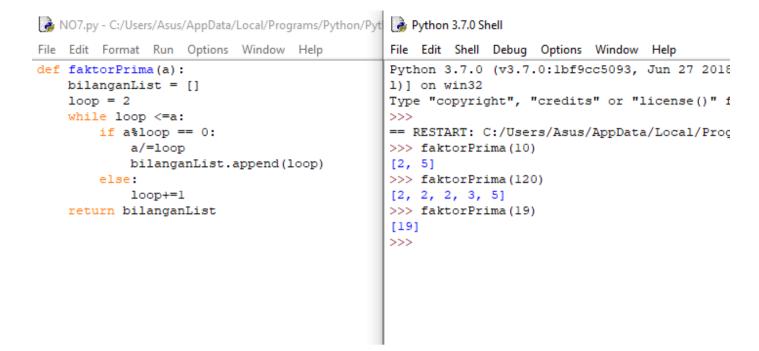
#### Nomor 3B

```
NO3B.py - C:/Users/Asus/AppData/Local/Programs/Python/Py
File Edit Format Run Options Window Help
                                               File Edit Shell Debug Options Window Help
def jumlahHurufKonsonan(hruf):
                                              Python 3.7.0 (v3.7.0:1bf9cc5093, Jun 27 201)
    konsonan = "BCDFGHJKLMNPQRSTVWXYZbcdfghjk
                                              1)] on win32
    b = 0
                                              Type "copyright", "credits" or "license()" :
   hasil = 0
                                              >>>
    for i in hruf:
                                              == RESTART: C:/Users/Asus/AppData/Local/Pro
        if i in konsonan:
                                              >>> k = jumlahHurufKonsonan("Surakarta")
           b += len(i)
                                              >>> k
                                              (9, 5)
        else:
                                              >>>
           b += 0
    hasil = len(hruf),b
    return hasil
```

```
NO4.py - C:/Users/Asus/AppData/Local/Programs/Python/Py
File Edit Format Run Options Window Help
                                              File Edit Shell Debug Options Window Help
                                              Python 3.7.0 (v3.7.0:1bf9cc5093, Jun 27 2018
def rerata(x):
                                              1)] on win32
   jumlah = 0
    for i in range(len(x)):
                                              Type "copyright", "credits" or "license()" f
        jumlah += x[i]
    jumlah = jumlah/len(x)
                                              == RESTART: C:/Users/Asus/AppData/Local/Prog
    return jumlah
                                             >>> rerata([1,2,3,4,5])
                                              3.0
                                             >>> g = [3,4,5,4,3,4,5,2,2,10,11,23]
                                             >>> rerata(g)
                                              6.333333333333333
                                              >>>
```

```
NO5.py - C:/Users/Asus/AppData/Local/Programs/Python/Pyt 2 Python 3.7.0 Shell
File Edit Format Run Options Window Help
                                               File Edit Shell Debug Options Window Help
from math import sqrt as sq
                                               Python 3.7.0 (v3.7.0:1bf9cc5093, Jun 27 2018
def apakahPrima(n):
                                               1)] on win32
   n = int(n)
                                               Type "copyright", "credits" or "license()" for
   assert n >= 0
   primaKecil = [2,3,5,7,11]
                                               == RESTART: C:/Users/Asus/AppData/Local/Prog:
   bukanPrKecil = [0,1,4,6,8,9,10]
                                               >>> apakahPrima(17)
    if n in primaKecil:
                                               True
        return True
                                               >>> apakahPrima(97)
    elif n in bukanPrKecil:
                                               True
       return False
                                               >>> apakahPrima(123)
    else:
                                               False
        for i in range (2, int(sq(n))+1):
                                               >>>
            if n%i==0:
                return False
        return True
```

```
NO6.py - C:/Users/Asus/AppData/Local/Programs/Python/Py Python 3.7.0 Shell
File Edit Format Run Options Window Help
                                                File Edit Shell Debug Options Window Help
lower = 2
                                                Python 3.7.0 (v3.7.0:1bf9cc5093, Jun 27 2018
upper = 1000
                                                1)] on win32
if lower>=1 and upper>1:
                                                Type "copyright", "credits" or "license()" f
    for x in range(lower, upper):
                                                >>>
                                                == RESTART: C:/Users/Asus/AppData/Local/Proc
        prima=True
        for i in range(2,x):
            if(x%i==0):
                                                3
                                                5
                prima=False
        if prima==True:
                                                7
            print(x)
                                                11
else:
                                                13
   print("Bukan Bilangan Prima")
                                                17
                                                19
                                                23
                                                29
                                                31
                                                37
                                                41
                                                43
                                                47
                                                53
                                                59
                                                61
                                                67
                                                71
                                                73
                                                79
                                                83
                                                89
                                                97
                                                101
                                                103
                                                107
                                                109
                                                113
                                                127
                                                131
                                                137
                                                139
```



```
NO8.py - C:/Users/Asus/AppData/Local/Programs/Python/Py Python 3.7.0 Shell
File Edit Format Run Options Window Help
                                               File Edit Shell Debug Options Window Help
                                               Python 3.7.0 (v3.7.0:1bf9cc5093, Jun 27 2018
def apakahTerkandung(x,y):
    a = True
                                               1)] on win32
    for i in range(len(y)):
                                               Type "copyright", "credits" or "license()" for
        if x in y:
                                               >>>
            a = True
                                               == RESTART: C:/Users/Asus/AppData/Local/Prog:
                                               >>> h = 'do'
        else:
                                               >>> k = 'Indonesia tanah air beta'
            a = False
    return a
                                               >>> apakahTerkandung(h,k)
                                               >>> apakahTerkandung('pusaka',k)
                                               False
                                               >>>
```

```
NO9.py - C:/Users/Asus/AppData/Local/Programs/Python/Py Python 3.7.0 Shell
File Edit Format Run Options Window Help
                                                 File Edit Shell Debug Options Window Help
def mencetak(a):
                                                 62
    for i in range(a):
                                                 Phyton
        if(i<=0):
                                                 64
                                                 UMS
             pass
        elif(i%3==0 and i%5==0):
                                                 Phyton
             print ("Phyton UMS")
                                                 67
        elif(i%3==0):
                                                 68
            print("Phyton")
                                                 Phyton
        elif(i%5==0):
                                                 UMS
            print("UMS")
                                                 71
        else:
                                                 Phyton
             print(i)
                                                 73
                                                 74
                                                 Phyton UMS
                                                 76
                                                 77
                                                 Phyton
                                                 79
                                                 UMS
                                                 Phyton
                                                 82
                                                 83
                                                 Phyton
                                                 UMS
                                                 86
                                                 Phyton
                                                 88
                                                 89
                                                 Phyton UMS
                                                 91
                                                 Phyton
                                                 94
                                                 UMS
                                                 Phyton
                                                 97
                                                 98
                                                 Phyton
                                                 UMS
```

```
File Edit Format Run Options Window Help

from math import sqrt as detr

def selesaixanABC(a,b,c):
    a = float(a)
    b = float(b)
    c = float(c)
    D = float(b'2 - 4*a*c)
    if(D<0):
    hasil = "Determinan negatif, persamaan tidak mempunyai akar real"
    return hasil

else:
    xl = (-b+detr(D))/(2*a)
    x2 = (-b+detr(D))/(2*a)
    return hasil
```

```
NO11.py - C:/Users/Asus/AppData/Local/Programs/Python/Python37-32/NO1 🔒 Python 3.7.0 Shell
                                                           File Edit Shell Debug Options Window Help
File Edit Format Run Options Window Help
def tahunKabisat(tahun):
                                                           Python 3.7.0 (v3.7.0:1bf9cc5093, Jun 27 2018, 04:06:47
    hasil = False
                                                           1)1 on win32
    if(tahun%4==0 and tahun%100!=0 and tahun%400!=0):
                                                           Type "copyright", "credits" or "license()" for more in
        hasil = True
    elif(tahun%100==0 and tahun%400!=0):
                                                           == RESTART: C:/Users/Asus/AppData/Local/Programs/Pytho
        hasil = False
                                                           >>> tahunKabisat(1896)
    elif(tahun%400==0):
                                                           True
        hasil = True
                                                           >>> tahunKabisat(1897)
    else:
                                                           False
        hasil = False
                                                           >>> tahunKabisat(1900)
    return hasil
                                                           False
                                                           >>> tahunKabisat(2000)
                                                           True
                                                           >>> tahunKabisat(2004)
                                                           True
                                                           >>> tahunKabisat(2100)
                                                           False
                                                           >>> tahunKabisat(2400)
                                                           True
                                                           >>>
```

```
nomer12.py - D:\PERKULIAHAN\SEMESTER 4\PRAKTIKUM ALGOSTRUK\L200180211_Modul1_... — LJ
                                                                                 X
File Edit Format Run Options Window Help
import random
def tebakAngka():
    a = random.randrange(1,101,1)
   b = -1
   n = 0
   print ("Permainan Tebak Angka")
   print ("Saya Menyimpan sebuah Angka Bulat antara 1 sampai 100. Coba Tebak.")
   while a != b :
        n = n + 1
       b = int (input ("Masukkan Tebakan ke- " + str(n) + ":> "))
        if b < a:
            print ("Itu Terlalu Kecil")
        elif b > a :
           print ("Itu Terlalu Besar")
        else :
            print ("Ya. Anda Benar.")
            break
Python 2.7.15 Shell
                                                                           X
File Edit Shell Debug Options Window Help
Python 2.7.15 (v2.7.15:ca079a3ea3, Apr 30 2018, 16:22:17) [MSC v.1500 32 bit (In
tel)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
RESTART: D:\PERKULIAHAN\SEMESTER 4\PRAKTIKUM ALGOSTRUK\L200180211 Modul1 H ASD\
nomer12.py
>>> tebakAngka()
Permainan Tebak Angka
Saya Menyimpan sebuah Angka Bulat antara 1 sampai 100. Coba Tebak.
Masukkan Tebakan ke- 1:> 78
Itu Terlalu Kecil
Masukkan Tebakan ke- 2:> 100
Itu Terlalu Besar
Masukkan Tebakan ke- 3:> 90
Itu Terlalu Besar
Masukkan Tebakan ke- 4:> 85
Ya. Anda Benar.
>>>
```

```
NO13.py - C:/Users/Asus/AppData/Local/Programs/Python/Python37-32/NO13.py (3.7.0)

    Python 3.7.0 Shell

File Edit Format Run Options Window Help
                                                                              File Edit Shell Debug Options Window Help
Python 3.7.0 (v3.7.0:1bf9cc5093, Jun 27 2018, 04:06:47) [MSC v.1914 32
                                                                              1)] on win32
                                                                             Type "copyright", "credits" or "license()" for more information.
                                                                               >>
= RESTART: C:/Users/Asus/AppData/Local/Programs/Python/Python37-32/NO1
    n = int(bilangan)
    if n>=0 and n<=11:
Hasil = Hasil+angka[n]
                                                                              >>> katakan(3125750)
' TigaJutaSeratus Ribu DuaPuluh LimaRibu TujuhRatus LimaPuluh '
>>> |
    elif n<2:
    Hasil = katakan(n%10) + "Belas"</pre>
        Hasil = katakan(n/10) + "Puluh" + katakan(n%10)
    elif n<200:
        Hasil = "Seratus" + katakan(n-100)
    elif n<1000:
        Hasil = katakan(n/100) + "Ratus" + katakan(n%100)
        has11 = katakan(n/100) + "katus" +
f n<2000:
Hasil = "Seribu" + katakan(n-1000)</pre>
    elif n<10000:
        Hasil = katakan(n/1000) + "Ribu" + katakan(n%1000)
    elif n<20000:
Hasil = "Sepuluh Ribu" + katakan(n-10000)
    elif n<100000:
        Hasil = katakan(n/10000) + "Puluh" + katakan(n%10000)
        f n<200000:
Hasil = "Seratus Ribu" + katakan(n-100000)
    elif n<1000000:
        Hasil = katakan(n/100000) + "Ratus" + katakan(n%100000)
    elif n<2000000:
        Hasil = "Satu Juta" + katakan(n-1000000)
    elif n<10000000:
        Hasil = katakan(n/1000000) + "Juta" + katakan(n%1000000)
    elif n==10000000:

Haail = "Satu Milyar" + katakan(n%1000000)
        Hasil = "Angka Hanya Sampai Satu Milyar"
    return Hasil
```

```
NO14.py - C:/Users/Asus/AppData/Local/Programs/Python/Pyth
                                                 Python 3.7.0 Shell
   Edit Format Run Options Window Help
                                                 File Edit Shell Debug Options Window Help
def formatRupiah(bilangan):
                                                 Python 3.7.0 (v3.7.0:1bf9cc5093, Jun 27 201
    a = str(bilangan)
                                                 1)] on win32
    if len(a)<=3:
                                                 Type "copyright", "credits" or "license()"
        return "Rp "+a
                                                 >>>
    else:
                                                 == RESTART: C:/Users/Asus/AppData/Local/Pro
        y = a[-3:]
                                                 >>> formatRupiah(1500)
        z = a[:-3]
                                                 'Rp 1.500'
        return formatRupiah(z)+"."+y
                                                 >>> formatRupiah(2560000)
        print(("Rp ")+formatRupiah(z)+"."+y)
                                                 'Rp 2.560.000'
                                                 >>>
```