Nama: Guntur Jatmiko NIM : L200180039

Kelas: B

MODUL 1 ASD

1. Output file 1.py

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@ @

000000000 >>>

@

@

```
Python 3.7.5 Shell
    File Edit Shell Debug Options Window Help
    Python 3.7.5 (tags/v3.7.5:5c02a39a0b, Oct 15 2019, 00:11:34) [MSC v.1916 64 bit
    (AMD64)] on win32
    Type "help", "copyright", "credits" or "license()" for more information.
    >>>
    ======== RESTART: C:\Users\Mr.G\Documents\AlgoStrukDat\mod2.py =========
    >>> cetakSiku(2)
    **
    >>>
                                                                                X
    mod2.py - C:\Users\Mr.G\Documents\AlgoStrukDat\mod2.py (3.7.5)
    File Edit Format Run Options Window Help
   import random
    #1
   def cetakSiku(x) :
        for a in range(x) :
            print((a+1)*"*")
2. Output file 2.py
    #2
    def gambarlahPersegiEmpat(a,b) :
        for i in range(a) :
            if ((i+1) == 1) :
                print(b*"@")
            elif((i+1) == a):
               print(b*"@")
            else :
                print("@"+" "*(b-2)+"@")
    Python 3.7.5 Shell
                                                                                X
    File Edit Shell Debug Options Window Help
    Python 3.7.5 (tags/v3.7.5:5c02a39a0b, Oct 15 2019, 00:11:34) [MSC v.1916 64 bit
    (AMD64)] on win32
    Type "help", "copyright", "credits" or "license()" for more information.
    ======= RESTART: C:\Users\Mr.G\Documents\AlgoStrukDat\mod2.py =========
    >>> gambarlahPersegiEmpat(9,9)
    000000000
    @
            @
```

3. Output file 3.py

```
def jumlahHurufVokal(ch) :
   b = len(ch)
   a = 0
   for i in ch :
       if (i=='A' or i=='a' or i=='E' or i =='e' or i=='I' or i=='i' or i=='O'
           a += 1
    return b,a
def jumlahHurufKonsonan(ch):
   b = len(ch)
   a = 0
   for i in ch :
       if (i=='A' or i=='a' or i=='E' or i =='e' or i=='I' or i=='i' or i=='O'
           a += 1
    return b,b-a
v = jumlahHurufVokal("Guntur")
k = jumlahHurufKonsonan("Guntur")
print(v)
print(k)
Python 3.7.5 Shell
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File Edit Shell Debug Options Window Help
Python 3.7.5 (tags/v3.7.5:5c02a39a0b, Oct 15 2019, 00:11:34) [MSC v.1916 64 bit
(AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
======= RESTART: C:\Users\Mr.G\Documents\AlgoStrukDat\mod2.py ========
>>> jumlahHurufVocal(Guntur)
Traceback (most recent call last):
 File "<pyshell#0>", line 1, in <module>
   jumlahHurufVocal(Guntur)
NameError: name 'jumlahHurufVocal' is not defined
>>>
======= RESTART: C:\Users\Mr.G\Documents\AlgoStrukDat\mod2.py ========
(6, 2)
(6, 4)
>>>
```

4. Output file 4.py

```
#4
   def rerata(x) :
       a = 0
       b = 0
       for i in x :
           a += 1
           b = b + i
           a = float(a)
           b = float(b)
       return (b/a)
    Python 3.7.5 Shell
                                                                             X
   File Edit Shell Debug Options Window Help
   Python 3.7.5 (tags/v3.7.5:5c02a39a0b, Oct 15 2019, 00:11:34) [MSC v.1916 64 bit
    (AMD64)1 on win32
   Type "help", "copyright", "credits" or "license()" for more information.
   ======= RESTART: C:\Users\Mr.G\Documents\AlgoStrukDat\mod2.py =========
   >>> rerata([7,8,8,7,9,7])
   7.6666666666667
   >>>
5. Output file 5.py
    def apakahPrima(a) :
       x = 0
       for i in range(a) :
           if a % (i+1) == 0:
               x += 1
        if x == 2:
           print("YA")
       else :
           print("TIDAK")
    Python 3.7.5 Shell
                                                                              \times
    File Edit Shell Debug Options Window Help
    Python 3.7.5 (tags/v3.7.5:5c02a39a0b, Oct 15 2019, 00:11:34) [MSC v.1916 64 bit
    (AMD64)] on win32
    Type "help", "copyright", "credits" or "license()" for more information.
    >>>
    ======= RESTART: C:\Users\Mr.G\Documents\AlgoStrukDat\mod2.py ========
    >>> rerata([7,8,8,7,9,7])
    7.6666666666667
    >>>
    ======= RESTART: C:\Users\Mr.G\Documents\AlgoStrukDat\mod2.py =========
    >>> apakahPrima(15)
    TIDAK
    >>> apakahPrima(50)
   TIDAK
    >>> apakahPrima(47)
    ΥA
   >>>
```

6. Output file 6.py

50

```
mod2.py - C:\Users\Mr.G\Documents\AlgoStrukDat\mod2.py (3.7.5)
                                                                            File Edit Format Run Options Window Help
#6
def cekPrima() :
    y = range(1001)
    for i in range(2,1001) :
        x = 0
        for j in range(i) :
            if i % (j+1) == 0:
                x += 1
        if x == 2:
            print(i)
Python 3.7.5 Shell
                                                                             File Edit Shell Debug Options Window Help
Python 3.7.5 (tags/v3.7.5:5c02a39a0b, Oct 15 2019, 00:11:34) [MSC v.1916 64 bit
(AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
======= RESTART: C:\Users\Mr.G\Documents\AlgoStrukDat\mod2.py ========
>>> cekPrima()
2
3
5
7
11
13
17
19
23
29
31
37
41
43
47
53
```

7. Output file 7.py

```
#7
def faktorPrima(x):
    listprima=[]
    prima=2
    while prima<=x:
        if x%prima==0:
           x/=prima
            listprima.append(prima)
        else:
            prima+=1
    return listprima
Python 3.7.5 Shell
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File Edit Shell Debug Options Window Help
Python 3.7.5 (tags/v3.7.5:5c02a39a0b, Oct 15 2019, 00:11:34) [MSC v.1916 64 bit
(AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
======= RESTART: C:\Users\Mr.G\Documents\AlgoStrukDat\mod2.py ======
>>> faktorPrima(143)
[11, 13]
   if a in b:
```

8. Output file 8.py

```
def apakahTerkandung(a,b) :
       return True
    else :
       return False
Python 3.7.5 Shell
                                                                          File Edit Shell Debug Options Window Help
Python 3.7.5 (tags/v3.7.5:5c02a39a0b, Oct 15 2019, 00:11:34) [MSC v.1916 64 bit
(AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
======== RESTART: C:\Users\Mr.G\Documents\AlgoStrukDat\mod2.py =========
>>> apakahTerkandung("db", "awddasdadwawawds")
False
>>> apakahTerkandung("awkarin", "awokawokawokoawkarin")
True
>>>
```

9. Output file 9.py

Python

```
#9
def ums() :
    for i in range(101) :
       if (i+1) % 15 == 0 :
           print("Python UMS")
        elif (i+1) % 3 == 0 :
           print("Python")
        elif (i+1) % 5 == 0 :
           print("UMS")
        else :
            print(i+1)
 Python 3.7.5 Shell
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 File Edit Shell Debug Options Window Help
 Python 3.7.5 (tags/v3.7.5:5c02a39a0b, Oct 15 2019, 00:11:34) [MSC v.1916 64 bit ^
 (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
 ======= RESTART: C:\Users\Mr.G\Documents\AlgoStrukDat\mod2.py ========
>>> ums()
 1
 2
 Python
UMS
 Python
Python
 UMS
 11
 Python
 13
 14
 Python UMS
 17
 Python
 19
 UMS
 Python
22
 23
```

10. Output file 10.py

```
#10
def selesaikanABC(a,b,c) :
    res = 0
    res = (b**2) - (4*a*c)
   if res == 0:
       print ("Determinannya nol. Persamaan mempunyai satu akar kembar.")
    elif res > 0 :
       print ("Determinannya positif. Persamaan mempunyai akar real dan berlaina
    elif res < 0 :
       print("Determinannya negatif. Persamaan tidak mempunyai akar real.")
Python 3.7.5 Shell
                                                                         File Edit Shell Debug Options Window Help
Python 3.7.5 (tags/v3.7.5:5c02a39a0b, Oct 15 2019, 00:11:34) [MSC v.1916 64 bit ^
(AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
======= RESTART: C:\Users\Mr.G\Documents\AlgoStrukDat\mod2.py ========
>>> selesaikanABC(3,2,1)
Determinannya negatif. Persamaan tidak mempunyai akar real.
>>>
```

11. Output file 11.py

```
#11
def apakahKabisat() :
   thn = int(input("Masukkan Tahun : "))
    if thn % 4 == 0:
       if thn % 100 == 0:
           if thn % 400 == 0:
               print(True)
           else :
               print(False)
        else :
           print (True)
    else :
        print (False)
apakahKabisat()
Python 3.7.5 Shell
                                                                          П
                                                                                X
File Edit Shell Debug Options Window Help
Python 3.7.5 (tags/v3.7.5:5c02a39a0b, Oct 15 2019, 00:11:34) [MSC v.1916 64 bit
(AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
======= RESTART: C:\Users\Mr.G\Documents\AlgoStrukDat\mod2.py =========
Masukkan Tahun: 2020
True
>>>
```

12. Output file 12.py

```
#12
def tebak() :
    a = random.randrange(1,101)
   b = -1
   n = 0
   print("Permainan tebak angkat.")
   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. Coba lagi")
        elif b > a:
           print("Itu terlalu besar. Coba lagi")
        else :
           print("Ya. Anda benar.")
            break
tebak()
Python 3.7.5 Shell
                                                                          File Edit Shell Debug Options Window Help
Python 3.7.5 (tags/v3.7.5:5c02a39a0b, Oct 15 2019, 00:11:34) [MSC v.1916 64 bit ]
(AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
======= RESTART: C:\Users\Mr.G\Documents\AlgoStrukDat\mod2.py =========
Permainan tebak angkat.
Saya menyimpan sebuah angka bulat antara 1 sampai 100. Coba tebak
Masukkan tebakan ke-1:> 2
Itu terlalu kecil. Coba lagi
Masukkan tebakan ke-2:> 67
Itu terlalu kecil. Coba lagi
Masukkan tebakan ke-3:> 89
Itu terlalu besar. Coba lagi
Masukkan tebakan ke-4:> 78
Itu terlalu kecil. Coba lagi
Masukkan tebakan ke-5:> 80
Itu terlalu besar. Coba lagi
Masukkan tebakan ke-6:> 79
Ya. Anda benar.
>>>
```

13. Output file 13.py

>>>

```
#13
def katakan(x):
    satuan = [' ', 'satu', 'dua', 'tiga', 'empat', 'lima', 'enam', 'tujuh', 'del
   hasil = ""
    if x <= 0:
       hasil += 'Bilangan Haruslah Positif\ndan Bilangan Asli'
    elif x < 12:
       hasil += satuan[x]
    elif x < 20:
        hasil += katakan(x-10) + " belas "
    elif x < 100:
        hasil += katakan(int(x/10)) + " puluh " + katakan(x%10)
    elif x < 200:
       hasil += "seratus " + katakan(x-100)
    elif x < 1000:
       hasil += katakan(int(x/100)) + " ratus " + katakan(x%100)
    elif x < 2000:
       hasil += "seribu " + katakan(x-1000)
    elif x < 1000000:
       hasil += katakan(int(x/1000)) + " ribu " + katakan(x%1000)
    elif x < 1000000000:
       hasil += katakan(int(x/1000000)) + " juta " + katakan(x%1000000)
    elif x >= 10000000000 :
       hasil += katakan(int(x/1000000000)) + " milyar " + katakan(x%1000000000)
    return hasil
Python 3.7.5 Shell
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File Edit Shell Debug Options Window Help
Python 3.7.5 (tags/v3.7.5:5c02a39a0b, Oct 15 2019, 00:11:34) [MSC v.1916 64 bit
(AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
======== RESTART: C:\Users\Mr.G\Documents\AlgoStrukDat\mod2.py ========
>>> katakan(9999)
```

'sembilan ribu sembilan ratus sembilan puluh sembilan'

14. Output file 14.py

#14

```
def formatRupiah(a) :
   a = list(str(a))
   b = len(a)
    if b % 3 == 0 :
      b = int(b/3) - 1
    else :
       b = int(b/3)
    n = 0
    for i in range(b) :
       x = -3*(i+1)
       a.insert(int(x)+n,".")
       n = n - 1
    a = "".join(a)
    print("Rp "+a)
Python 3.7.5 Shell
                                                                                X
                                                                          File Edit Shell Debug Options Window Help
Python 3.7.5 (tags/v3.7.5:5c02a39a0b, Oct 15 2019, 00:11:34) [MSC v.1916 64 bit
(AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
======== RESTART: C:\Users\Mr.G\Documents\AlgoStrukDat\mod2.py ========
>>> formatRupiah(999000000)
Rp 999.000.000
>>>
```