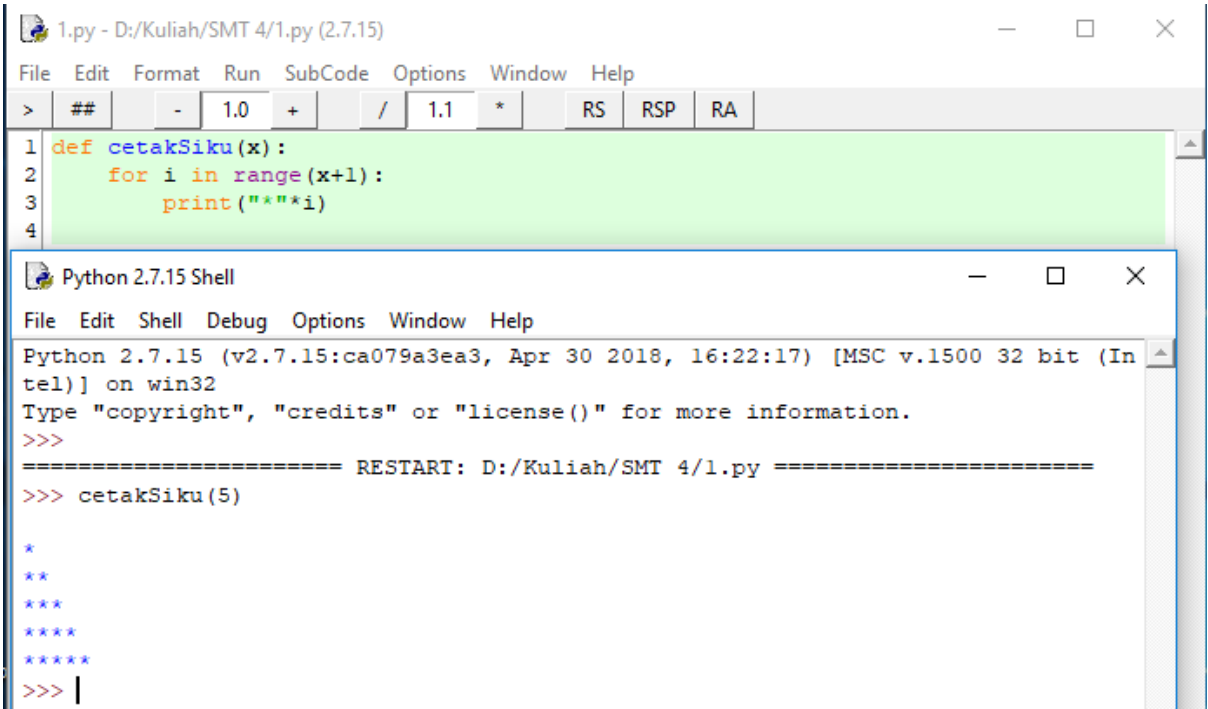


Nama : Sang Aji Indutoro
NIM : L200180003

1.



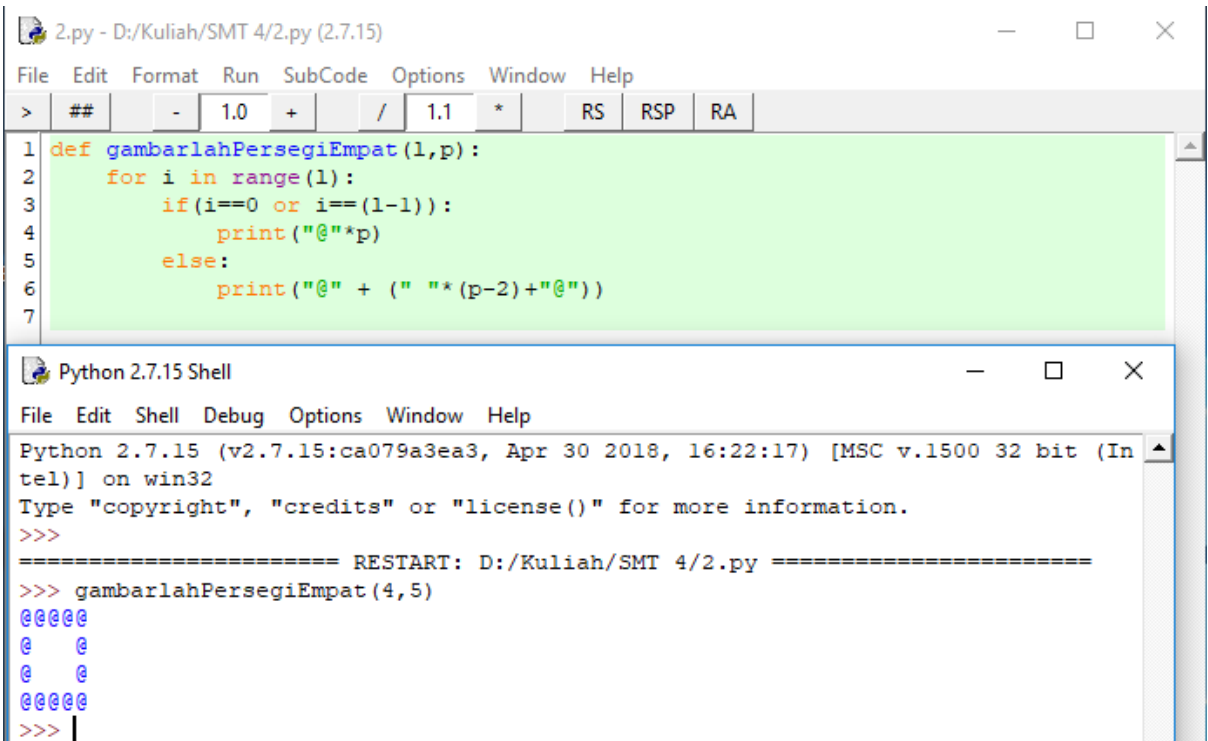
```
1.py - D:/Kuliah/SMT 4/1.py (2.7.15)
File Edit Format Run SubCode Options Window Help
> ## - 1.0 + / 1.1 * RS RSP RA

1 def cetakSiku(x):
2     for i in range(x+1):
3         print(""*i)
4

Python 2.7.15 Shell
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 (Intel)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: D:/Kuliah/SMT 4/1.py =====
>>> cetakSiku(5)

*
**
***
****
*****
>>> |
```

2.



```
2.py - D:/Kuliah/SMT 4/2.py (2.7.15)
File Edit Format Run SubCode Options Window Help
> ## - 1.0 + / 1.1 * RS RSP RA

1 def gambarlahPersegiEmpat(l,p):
2     for i in range(l):
3         if(i==0 or i==(l-1)):
4             print("@"*p)
5         else:
6             print("@" + (" "*(p-2)+"@"))
7

Python 2.7.15 Shell
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 (Intel)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: D:/Kuliah/SMT 4/2.py =====
>>> gambarlahPersegiEmpat(4,5)
@@@@@
@  @
@  @
@@@@@
>>> |
```

3.

The screenshot shows a Python IDE window titled "3.py - D:/Kuliah/SMT 4/3.py (2.7.15)". The code defines a function `jumlahHurufVokal(x)` that counts the number of vowels in a string `x`. The function initializes `hrfvokal=0` and `jmlHuruf=len(x)`. It then iterates over each character `i` in `x`. If `i` is in the string `"aiueoAIUEO"`, it increments `hrfvokal` by 1. Finally, it prints the values of `hrfvokal` and `jmlHuruf`.

```
1 vokal="aiueoAIUEO"
2 def jumlahHurufVokal(x):
3     hrfvokal=0
4     jmlHuruf=len(x)
5     for i in x:
6         if i in vokal:
7             hrfvokal+=1
8     print(hrfvokal, ",", jmlHuruf)
9
```

Below the code editor is a "Python 2.7.15 Shell" window. It shows the execution of the script. The prompt `>>>` is followed by the function call `jumlahHurufVokal('Surakarta')`, which returns the output `(4, ',', 9)`.

```
Python 2.7.15 Shell
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 (Intel)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: D:/Kuliah/SMT 4/3.py =====
>>> jumlahHurufVokal('Surakarta')
(4, ',', 9)
>>> |
```

The screenshot shows a Python IDE window titled "3.1.py - D:/Kuliah/SMT 4/3.1.py (2.7.15)". The code defines a function `jumlahHurufKonsonan(x)` that counts the number of consonants in a string `x`. The function initializes `hrfkonsonanl=0` and `jmlHuruf=len(x)`. It then iterates over each character `i` in `x`. If `i` is not in the string `"aiueoAIUEO"`, it increments `hrfkonsonanl` by 1. Finally, it prints the values of `hrfkonsonanl` and `jmlHuruf`.

```
1 vokal="aiueoAIUEO"
2 def jumlahHurufKonsonan(x):
3     hrfkonsonanl=0
4     jmlHuruf=len(x)
5     for i in x:
6         if i not in vokal:
7             hrfkonsonanl+=1
8     print(hrfkonsonanl, ",", jmlHuruf)
9
```

Below the code editor is a "Python 2.7.15 Shell" window. It shows the execution of the script. The prompt `>>>` is followed by the function call `jumlahHurufKonsonan('Surakarta')`, which returns the output `(5, ',', 9)`.

```
Python 2.7.15 Shell
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 (Intel)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: D:/Kuliah/SMT 4/3.1.py =====
>>> jumlahHurufKonsonan('Surakarta')
(5, ',', 9)
>>> |
```

4.

4.py - D:\Kuliah\SMT 4\4.py (2.7.15)
File Edit Format Run SubCode Options Window Help

```

1
2 def rerata(b):
3     hasil=str(round(sum(b) / len(b), 2))
4     print(hasil)
5     return
6

```

Python 2.7.15 Shell
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 (Intel)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: D:\Kuliah\SMT 4\4.py =====
>>> rerata([1,2,3,4,5])
3.0
>>> |

```

5.

5.py - D:\Kuliah\SMT 4\5.py (2.7.15)
File Edit Format Run SubCode Options Window Help

```

1 from math import sqrt as sq
2 def apakahPrima(n):
3     n=int(n)
4     assert n>= 0
5     primaKecil = [2,3,5,7,11]
6     bukanPrKecil = [0,1,4,6,8,9,10]
7     if n in primaKecil:
8         return True
9     elif n in bukanPrKecil:
10        return False
11    else:
12        for i in range(2,int(sq(n))+1):
13            if(i%n == 0):
14                return False
15            else:
16                return True
17

```

Python 2.7.15 Shell
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 (Intel)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: D:\Kuliah\SMT 4\5.py =====
>>> apakahPrima(17)
True
>>> apakahPrima(97)
True
>>> apakahPrima(123)
True
>>> |

```

6.

Python 2.7.15 Shell

File Edit Shell Debug Options

```

Python 2.7.15 (v2.7.15:ca
tel)] on win32
Type "copyright", "credit
>>>
===== F
>>> cetakPrima()
3
5
7
9
11
13
15
17
19

```

6.py - D:\Kuliah\SMT 4\6.py (2.7.15)

File Edit Format Run SubCode Options

```

1 def cetakPrima():
2     for a in range(2,1001):
3         prima=1;
4         for b in range(2,a):
5             if(a%b==0):
6                 prima=0;
7             if (prima == 1):
8                 print(a)
9                 break
10
11
12

```

7.

Python 2.7.15 Shell

File Edit Shell Debug Options Win

```

Python 2.7.15 (v2.7.15:ca079a
tel)] on win32
Type "copyright", "credits" o
>>>
===== RESTA
>>> faktorPrima(10)
[2, 5]
>>> faktorPrima(120)
[2, 2, 2, 3, 5]
>>> faktorPrima(19)
[19]
>>> |

```

7.py - D:\Kuliah\SMT 4\7.py (2.7.15)

File Edit Format Run SubCode Options

```

1 def faktorPrima(x):
2     list=[]
3     n=2
4     while n<=x:
5         if x%n==0:
6             x/=n
7             list.append(n)
8         else:
9             n+=1
10     return list
11
12

```

8.

Python 2.7.15 Shell

File Edit Shell Debug Options Window Help

```

Python 2.7.15 (v2.7.15:ca079a3ea3, Apr 30 2
tel)] on win32
Type "copyright", "credits" or "license()"
>>>
===== RESTART: D:\Kuliah\
>>> h='do'
>>> k='Indonesia tanah air beta'
>>> apakahTerkandung(h,k)
True
>>> apakahTerkandung('pusaka',k)
False
>>> |

```

8.py - D:\Kuliah\SMT 4\8.py (2.7.15)

File Edit Format Run SubCode Options

```

1 def apakahTerkandung(a,b):
2     return a in b
3

```

9.

The screenshot shows a Python 2.7.15 IDE with a file named `9.py` located at `D:\Kuliah\SMT 4\9.py`. The script defines a function `cetak()` that iterates over the range `(1, 100)` and prints specific strings based on divisibility rules. The output in the shell shows the results of calling `cetak()`.

```

1 def cetak():
2     for i in range (1,100):
3         if (i%3==0):
4             print("Phyton")
5         elif(i%5==0):
6             print("UMS")
7         elif(i%3==0 and i%5==0):
8             print("Python UMS")
9         else:
10            print(i)
11
Python 2.7.15 (v2.7.15:ca079a3, Apr 30 2018, 16:22:17) [MSC v.1500 32 bit (Intel)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: D:\Kuliah\SMT 4\9.py =====
>>> cetak()
1
2
Phyton
4
UMS
Phyton
7
8
Phyton
UMS
11
Phyton
13
14
Phyton
16
17
Phyton

```

10.

The screenshot shows a Python 2.7.15 IDE with a file named `10.py` located at `D:\Kuliah\SMT 4\10.py`. The script defines a function `selesaikanABC(a,b,c)` that calculates the discriminant `D` and prints a message if it is negative. The output in the shell shows the result of calling `selesaikanABC(1,2,3)`.

```

1 from math import sqrt as akar
2 def selesaikanABC(a,b,c):
3     a=float(a)
4     b=float(b)
5     c=float(c)
6     D=b**2-4*a*c
7     if (D<0):
8         print("Determinannya negatif. Persamaan tidak mempunyai akar real.")
9     else:
10        x1=(-b + akar(D))/(2*a)
11        x2=(-b - akar(D))/(2*a)
12        hasil=(x1,x2)
13        return hasil
14
Python 2.7.15 (v2.7.15:ca079a3ea3, Apr 30 2018, 16:22:17) [MSC v.1500 32 bit (Intel)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: D:\Kuliah\SMT 4\10.py =====
>>> selesaikanABC(1,2,3)
Determinannya negatif. Persamaan tidak mempunyai akar real.
>>>

```

11.

11.py - D:\Kuliah\SMT 4\11.py (2.7.15)
Python 2.7.15 Shell

File Edit Format Run SubCode Options
File Edit Shell Debug Options Window

```

1 def apakahKabisat(n):
2     if(n%400==0):
3         return "kabisat"
4     if(n%100==0):
5         return "bukan kabisat"
6     if(n%4==0):
7         return "kabisat"
8     else:
9         return "bukan kabisat"
10

```

```

Python 2.7.15 (v2.7.15:ca079a3ea3
tel)] on win32
Type "copyright", "credits" or "l
>>>
===== RESTART:
>>> apakahKabisat(1896)
'kabisat'
>>> apakahKabisat(1900)
'bukan kabisat'
>>> apakahKabisat(2004)
'kabisat'
>>> apakahKabisat(2300)
'bukan kabisat'
>>> |

```

12.

12.py - D:\Kuliah\SMT 4\12.py (2.7.15)
Python 2.7.15 Shell

File Edit Format Run SubCode Options Window Help
File Edit Shell Debug Options Window Help

```

1 import random
2 def tebak():
3     i=0
4     a=random.randrange(0,100)
5     while(i<=6):
6         b=int(input("Masukkan angka : "))
7         i+=1
8         if(b>a):
9             print("Angka terlalu besar")
10        elif(b<a):
11            print("Angka terlalu kecil")
12        else:
13            print("Tebakan anda benar!")
14    print("\nMaaf batas mencoba hanya 7x")
15    print('Jawabannya adalah',a)
16

```

```

Python 2.7.15 (v2.7.15:ca079a3ea3, Apr 3
tel)] on win32
Type "copyright", "credits" or "license(
>>>
===== RESTART: D:\Kuli.
>>> tebak()
Masukkan angka : 1
Angka terlalu kecil
Masukkan angka : 2
Angka terlalu kecil
Masukkan angka : 3
Angka terlalu kecil
Masukkan angka : 4
Angka terlalu kecil
Masukkan angka : 5
Angka terlalu kecil
Masukkan angka : 6
Angka terlalu kecil
Masukkan angka : 7
Angka terlalu kecil

Maaf batas mencoba hanya 7x
('Jawabannya adalah', 69)
>>> |

```

13.py - D:\Kuliah\SMT 4\13.py (2.7.15)
File Edit Format Run SubCode Options Window Help

```

1 def katakan(a):
2     x={"0":"","1":"Se","2":"Dua","3":"Tiga","4":"Empat","5":"Lima","6":"Enam",
3       ,"7":"Tujuh","8":"Delapan","9":"Sembilan"}
4     y={"-1":"","-2":"puluh",-3:"ratus",-4:"ribu",-5:"puluh",
5       ,-6:"ratus",-7:"juta",-8:"puluhjuta"}
6     b=str(a)
7     z=""
8     i=-1
9     while i>= -len(b):
10         z=x[b[i]]+y[i]+" "+z
11         i-=1
12     return z

```

Python 2.7.15 Shell
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 (Intel)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: D:\Kuliah\SMT 4\13.py =====
>>> katakan(3125750)
'Tigajuta Seratus Duapuluh Limaribu Tujuhratus Limapuluh '
>>>

```

13.

14.py - D:\Kuliah\SMT 4\14.py (2.7.15)
File Edit Format Run SubCode Options Window Help

```

1 def formatRupiah(x):
2     y=str(x)
3     if len(y)<=3:
4         return 'Rp '+y
5     else:
6         p=y[-3:]
7         q=y[:-3]
8         return formatRupiah(q) + '.' + p
9

```

Python 2.7.15 Shell
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 (Intel)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: D:\Kuliah\SMT 4\14.py =====
>>> formatRupiah(1500)
'Rp 1.500'
>>> formatRupiah(2560000)
'Rp 2.560.000'
>>>

```

14.