

Ulin Nuha Trisiana

L200180190

Kelas G

Kodingan

```
1  from math import sqrt as sq
2  from random import randint
3
4  #No. 1.
5  def cetakSiku(x):
6      a = 0
7      while (a <= x):
8          print(a * ('*'))
9          a = a + 1
10     cetakSiku(5)
11
12     #No. 2.
13     def gambarlahPersegiEmpat(x, y):
14         a = 0
15         print(y * ('@'))
16         while (a < x - 2):
17             print('@' + (y - 2) * (' ') + '@')
18             a = a + 1
19         print(y * ('@'))
20     gambarlahPersegiEmpat(4, 5)
21
22     #No. 3. (a)
23     def jumlahHurufVokal(x):
24         k = len(x)
25         a = ('AEIOUaeiou')
26         b = 0
27         for c in x:
28             if c in a:
29                 b = b + 1
30         d = [k, b]
31         print(d)
32     k=jumlahHurufVokal("Surakarta")
33     k
34
```

```

35 # No. 3. (b)
36 def jumlahHurufKonsonan(x):
37     k = len(x)
38     a = ('AEIOUaeiou')
39     b = 0
40     for c in x:
41         if c not in a:
42             b = b + 1
43     d = [k, b]
44     print(d)
45 k = jumlahHurufKonsonan("Surakarta")
46 k
47
48 #No. 4
49 def rerata(b):
50     x = len(b)
51     y = 0
52     z = 0
53     while (y < x):
54         z = z + b[y]
55         y = y + 1
56     print (z / x)
57 rerata([1,2,3,4,5])
58 g = [3,4,5,4,3,4,5,2,2,10,11,23]
59 rerata(g)
60
61 #No. 5
62 def apakahPrima(n):
63     n = int(n)
64     assert n >= 0
65     primaKecil = [2, 3, 5, 7, 11]
66     bukanPrKecil = [0, 1, 4, 6, 8, 9, 10]
67     if n in primaKecil:
68         return True

```

```

69         return True
70     elif n in bukanPrKecil:
71         return False
72     else:
73         for i in range(2, int(sq(n)) + 1):
74             if ((n % i) == 0):
75                 return False
76             elif (i >= int(sq(n))):
77                 return True
78             else:
79                 continue
80     apakahPrima(17)
81     apakahPrima(97)
82     apakahPrima(123)
83
84 #No. 6
85 def bilPrima():
86     for i in range(2, 1000):
87         q = True
88         for y in range(2, i):
89             if (i % y == 0):
90                 q = False
91         if (q == True):
92             print(i)
93     bilPrima()
94
95 #No. 7
96 def faktorPrima(w):
97     w = int(w)
98     assert w >= 0
99     fakP = []
100     q = 2
101     while (q <= w):
102         if (w % q == 0):

```

```

100     while (q <= w):
101         if (w % q == 0):
102             w = w / q
103             fakP.append(q)
104         else:
105             q = q + 1
106     print(fakP)
107     faktorPrima(10)
108     faktorPrima(120)
109     faktorPrima(19)
110
111     #No. 8
112     def apakahTerandung(a, b):
113         a = a.lower()
114         b = b.lower()
115         if a in b:
116             return True
117         else:
118             return False
119     h = "do"
120     k = "Indonesia tanah air beta"
121     apakahTerandung(h,k)
122     apakahTerandung("pusaka",k)
123
124     #No. 9
125     def tampilkan():
126         for o in range(1, 100):
127             if (o % 3 == 0):
128                 if (o % 5 == 0):
129                     print("Python UMS")
130                 else:
131                     print("Python")
132             elif (o % 5 == 0):
133                 print("UMS")

```

```

134         else:
135             print(o)
136     tampilkan()
137
138     #No. 10
139     def selesaikanABC(r,s,t):
140         r = float(r)
141         s = float(s)
142         t = float(t)
143         D = (s ** 2) - (4 * r * t)
144         if (D < 0):
145             print("Determinannya negatif. Persamaan tidak mempunyai akar real")
146         else:
147             j1 = (-s + sq(D)) / (2 * r)
148             j2 = (-s - sq(D)) / (2 * r)
149             hasil = [j1, j2]
150             print(hasil)
151     selesaikanABC(1,2,3)
152
153     #No. 11
154     def apakahKabisat(tahun):
155         d = tahun
156         if (d % 4 == 0):
157             if (d % 100 == 0):
158                 if (d % 400 == 0):
159                     return True
160                 else:
161                     return False
162             else:
163                 return True
164         else:
165             return False
166     apakahKabisat(1896)
167     apakahKabisat(1897)

```

```

166 apakahKabisat(1896)
167 apakahKabisat(1897)
168 apakahKabisat(1900)
169 apakahKabisat(2000)
170 apakahKabisat(2020)
171 apakahKabisat(2100)
172 #Hasil tidak ditampilkan karena nilai hanya dikembalikan dan tidak dicetak
173
174 #No. 12
175 def gameTebakAngka():
176     w = 1
177     m = randint(1, 101)
178     n = input("Masukkan tebakan ke-" + str(w) + " : ")
179     n = int(n)
180     if (n == m):
181         print("Ya anda benar")
182     if (n < m):
183         print("Itu terlalu kecil")
184     elif (n > m):
185         print("Itu terlalu besar")
186     while (n != m):
187         w += 1
188         n = input("Masukkan tebakan ke-" + str(w) + " : ")
189         n = int(n)
190         if (n < m):
191             print("Itu terlalu kecil")
192         elif (n > m):
193             print("Itu terlalu besar")
194         if (n == m):
195             print("Ya anda benar")
196     gameTebakAngka()
197
198 #No. 13
199 def katakan(angka):

```

ASD_Modul01.py - E:/Prak_Algostruk/ASD_Modul01.py (3.6.5)

File Edit Format Run Options Window Help

```

#No. 13
def katakan(angka):
    ejaan = ["", "Satu", "Dua", "Tiga", "Empat", "Lima", "Enam", "Tujuh", "Delapan", "Sem
    hasil = ""
    k = int(angka)
    if (k >= 0 and k <= 11):
        hasil = ejaan[k]
    elif (k < 20):
        hasil = katakan(k%10) + " Belas"
    elif (k < 100):
        hasil = katakan(k/10) + " Puluh " + katakan(k%10)
    elif (k < 200):
        hasil = "Seratus " + katakan(k-100)
    elif (k < 1000):
        hasil = katakan(k/100) + " Ratus " + katakan(k%100)
    elif (k < 2000):
        hasil = "Seribu " + katakan(k - 1000)
    elif (k < 10000):
        hasil = katakan(k / 1000) + " Ribu " + katakan(k % 1000)
    elif (k < 20000):
        hasil = "Sepuluh Ribu " + katakan(k - 10000)
    elif (k < 100000):
        hasil = katakan(k / 10000) + " Puluh " + katakan(k % 10000)
    elif (k < 200000):
        hasil = "Seratus Ribu " + katakan(k - 100000)
    elif (k < 1000000):
        hasil = katakan(k / 100000) + " Ratus " + katakan(k % 100000)
    elif (k < 2000000):
        hasil = "Satu Juta " + katakan(k - 1000000)
    elif (k < 10000000):
        hasil = katakan(k / 1000000) + " Juta " + katakan(k % 1000000)
    elif (k == 10000000):
        hasil = "Satu Milyar " + katakan(k % 10000000)
    else:
        hasil = "Angka hanya sampai satu milyar"
    return (hasil)

```

Ln: 33 Col: 29

Python 3.6.5 Shell

File Edit Shell Debug Options Window Help

```

Python 3.6.5 (v3.6.5:f59c0932b4, Mar 28 2018, 17:00:18) [MSC v.1900 64 bit (AMD6
4)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: E:/Prak_Algostruk/ASD_Modul01.py =====
>>> katakan(3125750)
' Tiga Juta Seratus Ribu Dua Puluh Lima Ribu Tujuh Ratus Lima Puluh '
>>>

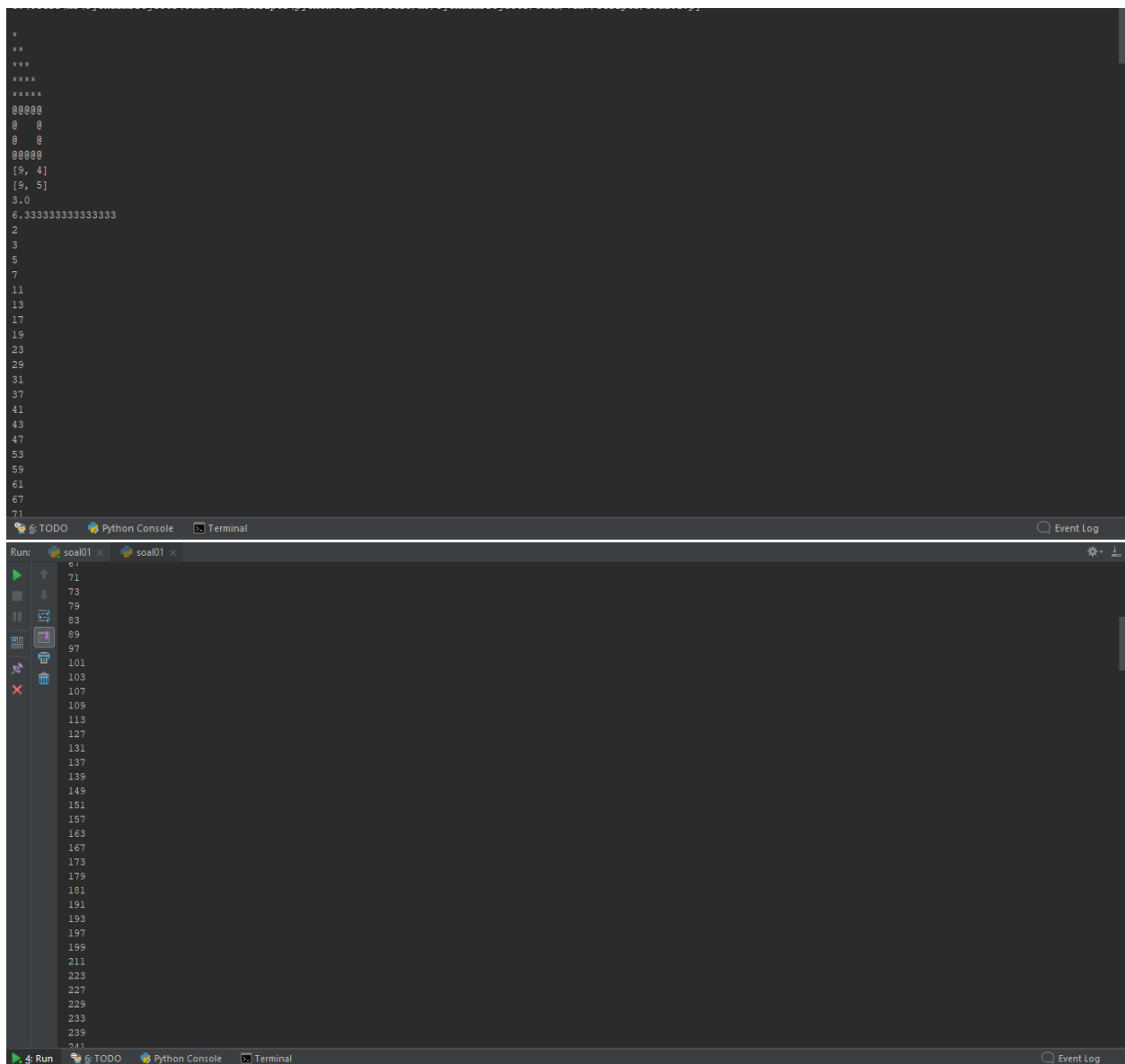
```

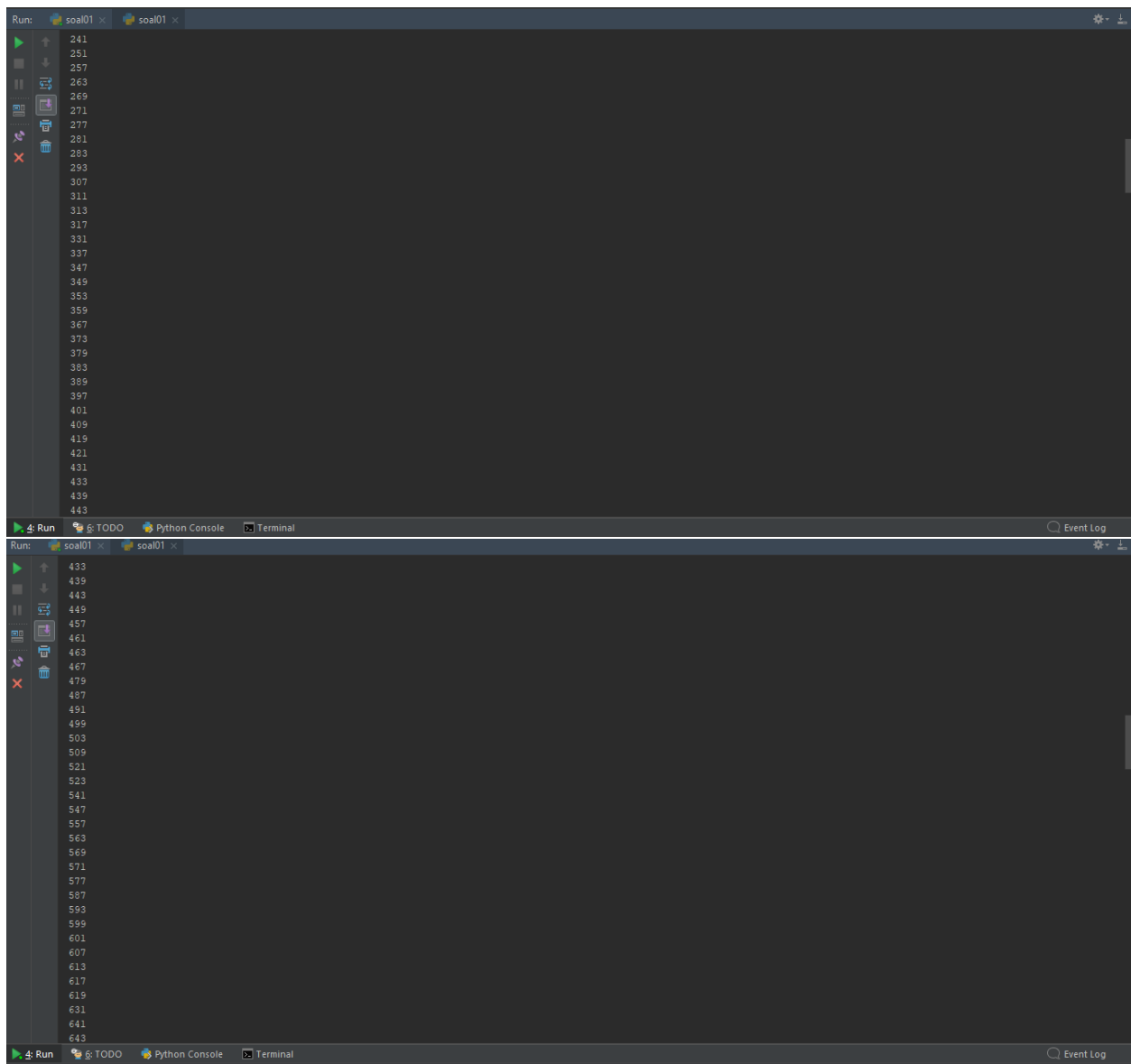
Ln: 7 Col: 4

```
ASD_14.py - E:/Prak_Algostruk/ASD_14.py (3.6.5)
File Edit Format Run Options Window Help
#No. 14
def formatRupiah(tulisBil):
    t = str(tulisBil)
    if len(t) <= 3 :
        return ("Rp " + t)
    else :
        c = t[-3:]
        d = t[:-3]
        return (formatRupiah(d) + "." + c)
    print (("Rp ") + formatRupiah(d) + "." + c)

Python 3.6.5 Shell
File Edit Shell Debug Options Window Help
Python 3.6.5 (v3.6.5:f59c0932b4, Mar 28 2018, 17:00:18) [MSC v.1900 64 bit (AMD64)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: E:/Prak_Algostruk/ASD_Modul01.py =====
>>> katakan(3125750)
'Tiga Juta Seratus Ribu Dua Puluh Lima Ribu Tujuh Ratus Lima Puluh '
>>>
===== RESTART: E:/Prak_Algostruk/ASD_14.py =====
>>> formatRupiah(1500)
'Rp 1.500'
>>> formatRupiah(2560000)
'Rp 2.560.000'
>>> |
```

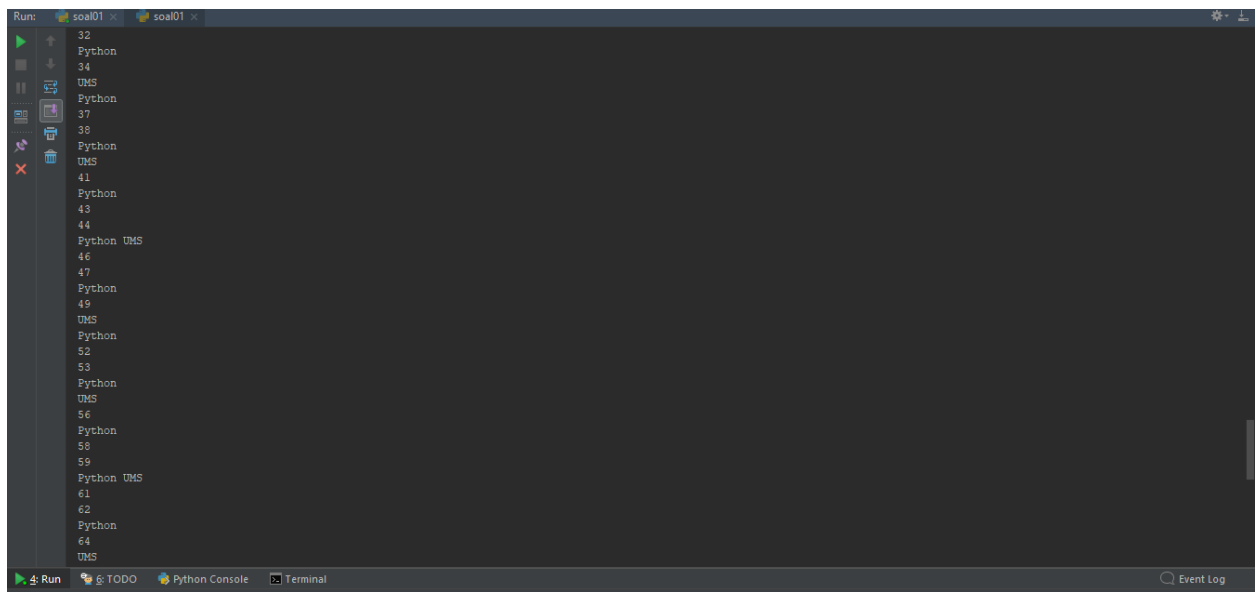
Output





```
Run: soal01 x soal01 x
761
769
773
787
797
809
811
821
823
827
829
839
853
857
859
863
877
881
883
887
907
911
919
929
937
941
947
953
967
971
977
983
991
997
```

```
Run: Run Python Console Terminal Event Log
soal01 x soal01 x
[2, 5]
[2, 2, 2, 3, 5]
[19]
1
2
Python
4
UMS
Python
7
8
Python
UMS
11
Python
13
14
Python UMS
16
17
Python
19
UMS
Python
22
23
Python
UMS
26
Python
28
29
Python UMS
31
```

```
Run: soal01 x
Python
43
44
Python UMS
46
47
Python
49
UMS
Python
52
53
Python
UMS
56
Python
58
59
Python UMS
61
62
Python
64
UMS
Python
67
68
Python
UMS
71
Python
73
74
Python UMS
76
```

```
Run: soal01 x
76
77
Python
79
UMS
Python
82
83
Python
UMS
86
Python
88
89
Python UMS
91
92
Python
94
UMS
Python
97
98
Python
Determinannya negatif. Persamaan tidak mempunyai akar real
Masukkan tebakan ke-1 : 0
Itu terlalu besar
Masukkan tebakan ke-2 : 10
Itu terlalu besar
Masukkan tebakan ke-3 : 0
Ya anda benar

Process finished with exit code 0
```