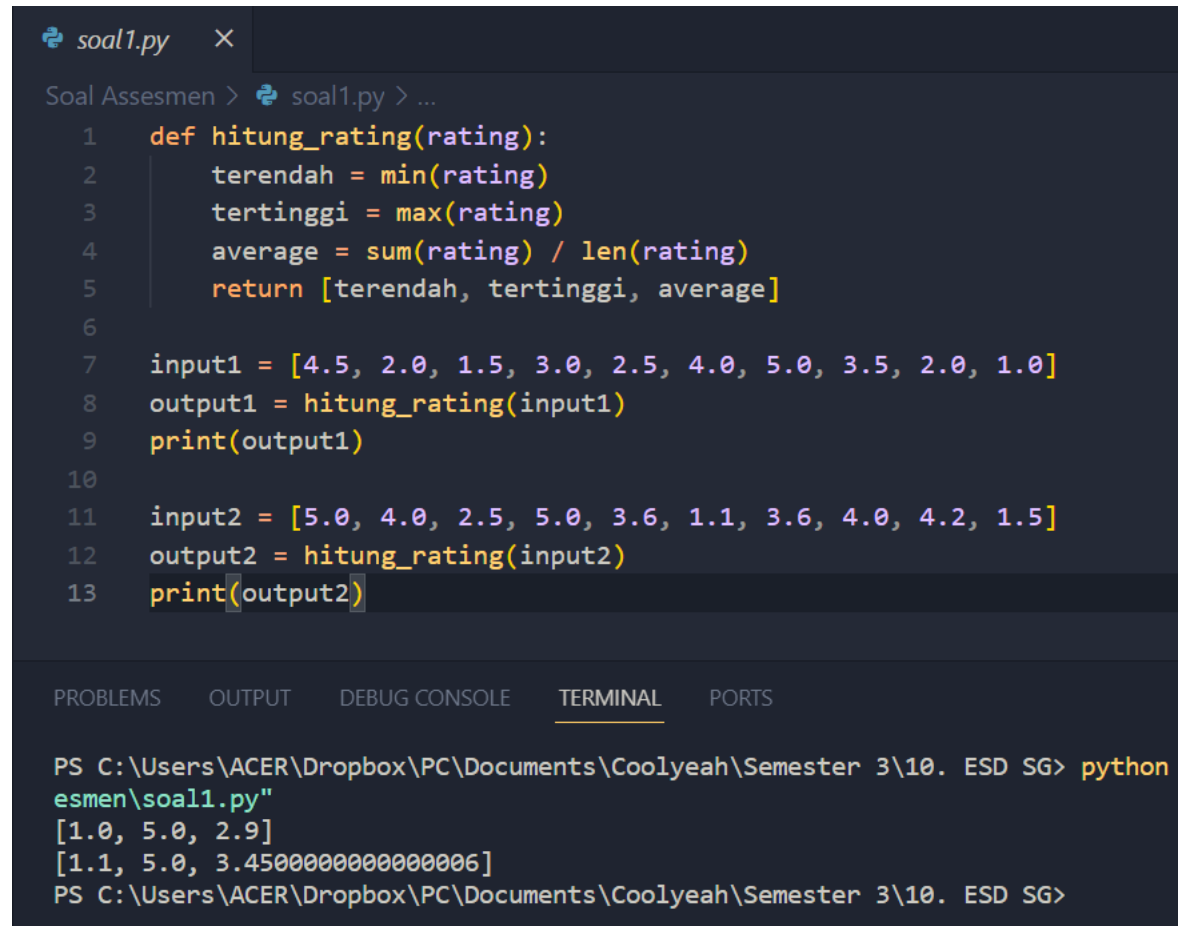


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No.1



```
soal1.py x
Soal Assesmen > soal1.py > ...
1  def hitung_rating(rating):
2      terendah = min(rating)
3      tertinggi = max(rating)
4      average = sum(rating) / len(rating)
5      return [terendah, tertinggi, average]
6
7  input1 = [4.5, 2.0, 1.5, 3.0, 2.5, 4.0, 5.0, 3.5, 2.0, 1.0]
8  output1 = hitung_rating(input1)
9  print(output1)
10
11 input2 = [5.0, 4.0, 2.5, 5.0, 3.6, 1.1, 3.6, 4.0, 4.2, 1.5]
12 output2 = hitung_rating(input2)
13 print(output2)

PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS

PS C:\Users\ACER\Dropbox\PC\Documents\Coolyeah\Semester 3\10. ESD SG> python
esmen\soal1.py"
[1.0, 5.0, 2.9]
[1.1, 5.0, 3.4500000000000006]
PS C:\Users\ACER\Dropbox\PC\Documents\Coolyeah\Semester 3\10. ESD SG>
```

No.2

```
soal2.py M X
Soal Assesmen > soal2.py > ...
1  def cek_palindrom(kalimat):
2      kalimat = kalimat.lower().replace(" ", "")
3      reversed_kalimat = kalimat[::-1]
4
5      if kalimat == reversed_kalimat:
6          return "eureeka!"
7      else:
8          return "suka blyat"
9
10 output_1 = cek_palindrom("Angsa")
11 print(output_1)
12
13 output_2 = cek_palindrom("KataK")
14 print(output_2)
15
16 output_3 = cek_palindrom("kasur empuk")
17 print(output_3)
18
19 output_4 = cek_palindrom("Aku Suka Kamu")
20 print(output_4)
21
22 output_5 = cek_palindrom("Ibu Ratna antar ubi.")
23 print(output_5)

PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS
PS C:\Users\ACER\Dropbox\PC\Documents\Coolyeah\Semester 3\10. ESD SG> python
esmen\soal2.py"
suka blyat
eureeka!
suka blyat
suka blyat
suka blyat
```

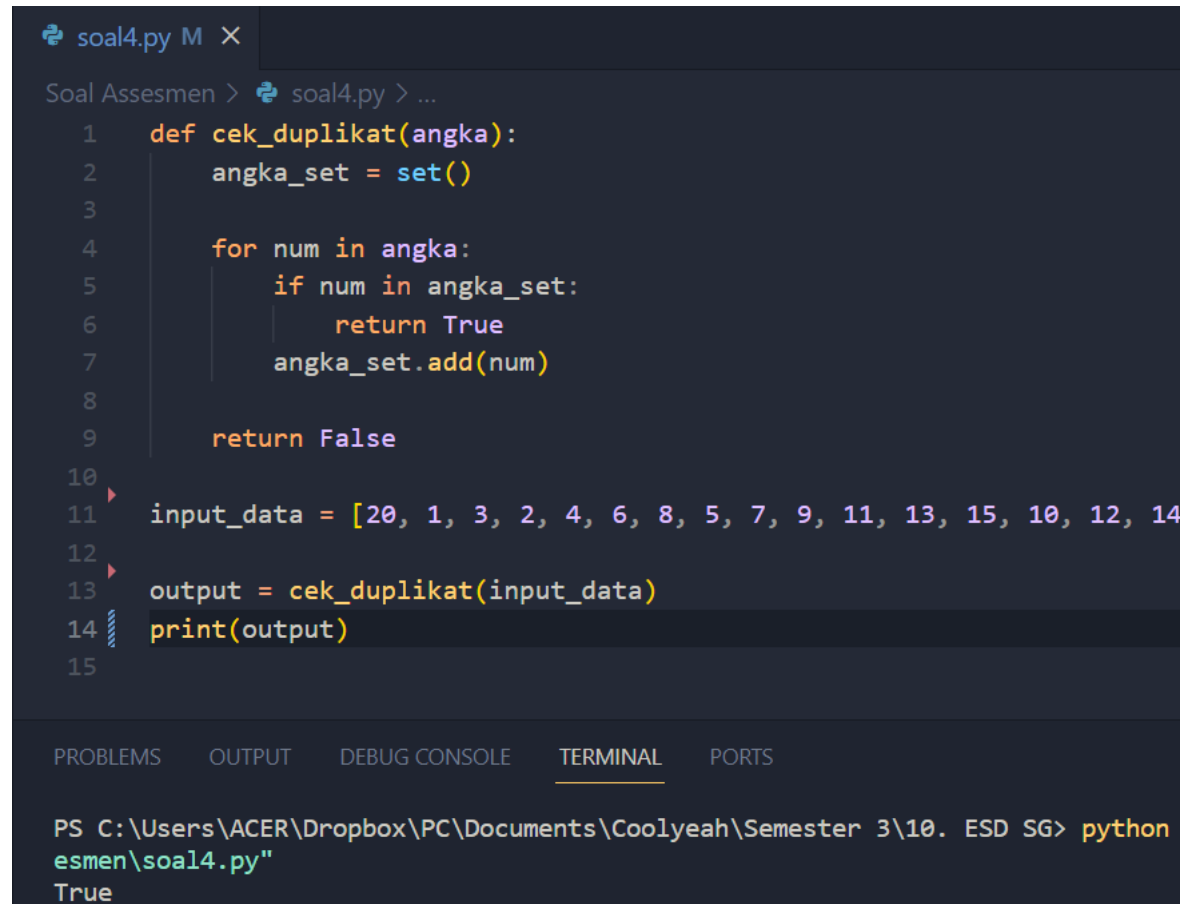
No.3

```
soal3.py x
Soal Asesmen > soal3.py > siapa_yang_mengambil_kue
1 def siapa_yang_mengambil_kue(urutan_kedatangan, foto_kue):
2     urutan_kedatangan.index(foto_kue)
3
4     if foto_kue == 'Xiao':
5         return "Xiao"
6     elif 'air mineral' in urutan_kedatangan[:urutan_kedatangan.index(foto_kue)]:
7         return "Childe"
8     elif 'memeriksa kue' in urutan_kedatangan[:urutan_kedatangan.index(foto_kue)]:
9         return "Ningguang"
10    else:
11        return "Hutao"
12
13    urutan_kedatangan = ['Ningguang', 'Hutao', 'Xiao', 'Childe']
14    foto_kue = 'Xiao'
15
16    pencuri_kue = siapa_yang_mengambil_kue(urutan_kedatangan, foto_kue)
17    print(f"Menurut logika sederhana, kemungkinan besar kue diambil oleh: {pencuri_kue}")
18
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
PS C:\Users\ACER\Dropbox\PC\Documents\Coolyeah\Semester 3\10. ESD SG> python esmen\soal3.py
Menurut logika sederhana, kemungkinan besar kue diambil oleh: Xiao
```

No.4



```
soal4.py M X
Soal Assesmen > soal4.py > ...
1  def cek_duplikat(angka):
2      angka_set = set()
3
4      for num in angka:
5          if num in angka_set:
6              return True
7          angka_set.add(num)
8
9      return False
10
11 input_data = [20, 1, 3, 2, 4, 6, 8, 5, 7, 9, 11, 13, 15, 10, 12, 14]
12
13 output = cek_duplikat(input_data)
14 print(output)
15

PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS

PS C:\Users\ACER\Dropbox\PC\Documents\Coolyeah\Semester 3\10. ESD SG> python
esmen\soal4.py"
True
```

No.5

```
soal5.py M X
Soal Assesmen > soal5.py > ...
1  from itertools import permutations
2
3  def hitung_kombinasi_username(nama_lengkap):
4      nama_lengkap = nama_lengkap.replace(" ", "").lower()
5
6      semua_kombinasi = []
7      for i in range(1, 7):
8          kombinasi = permutations(nama_lengkap, i)
9          semua_kombinasi.extend(kombinasi)
10
11     jumlah_kombinasi = len(set(map(lambda x: ''.join(x), semua_kombinasi)))
12
13     return jumlah_kombinasi
14
15     nama_lengkap = "Naip Lovyu"
16
17     jumlah_kombinasi = hitung_kombinasi_username(nama_lengkap)
18     print(f"Jumlah kombinasi username yang mungkin adalah: {jumlah_kombinasi}")
19
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS
PS C:\Users\ACER\Dropbox\PC\Documents\Coolyeah\Semester 3\10. ESD SG> python -u "c:\Us
esmen\soal5.py"
Jumlah kombinasi username yang mungkin adalah: 79209
```

No.6

```
soal6.py x
Soal Assesmen > soal6.py > [?] menu

1 menu = [
2     {"Nama": "Ayam Goreng Krispi", "Tipe": "Makanan", "Harga": 15000},
3     {"Nama": "Ayam Puk Puk (Bukan digeprek)", "Tipe": "Makanan", "Harga": 13000},
4     {"Nama": "Ayam Bakar", "Tipe": "Makanan", "Harga": 20000},
5     {"Nama": "Es teh", "Tipe": "Minuman", "Harga": 5000},
6     {"Nama": "Es Jeruk", "Tipe": "Minuman", "Harga": 7000}
7 ]
8
9 def hitung_biaya(pesanan):
10     subtotal = 0
11     for item in pesanan:
12         for m in menu:
13             if m["Nama"] == item:
14                 subtotal += m["Harga"]
15                 if m["Tipe"] == "Makanan":
16                     subtotal += m["Harga"] * 0.05
17                 else:
18                     subtotal += m["Harga"] * 0.03
19             break
20     return subtotal
21
22 pesanan_rehan = ["Ayam Bakar", "Ayam Bakar", "Es teh"]
23 pesanan_amba = ["Ayam Puk Puk (Bukan digeprek)", "Es teh", "Es teh", "Es teh"]
24 pesanan_faiz = ["Ayam Goreng Krispi", "Ayam Puk Puk (Bukan digeprek)", "Ayam Bakar", "Es teh", "Es Jeruk"]
25
26 biaya_rehan = hitung_biaya(pesanan_rehan)
27 biaya_amba = hitung_biaya(pesanan_amba)
28 biaya_faiz = hitung_biaya(pesanan_faiz)
29
30 print(f"Rehan Whangsap harus membayar: Rp {biaya_rehan}")
31 print(f"Amba Roni harus membayar: Rp {biaya_amba}")
32 print(f"Faiz Ngawi harus membayar: Rp {biaya_faiz}")
33
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
PS C:\Users\ACER\Dropbox\PC\Documents\Coolyeh\Semester 3\10. ESD SG> python -u "c:\Users\ACER\Dropbox\PC\Documents\Coolyeh\esmen\soal6.py"
Rehan Whangsap harus membayar: Rp 47150.0
Amba Roni harus membayar: Rp 29100.0
Faiz Ngawi harus membayar: Rp 62760.0
```

No.7

```
soal7.py M X
Soal Assesmen > soal7.py > ...
1 def dekripsi_pesan(pesan_terenkripsi):
2     pesan_terdekripsi = ""
3     for huruf in pesan_terenkripsi:
4         if huruf.isalpha():
5             huruf_terdekripsi = chr(((ord(huruf) - 97 - 5) % 26) + 97) if huruf.islower() else chr(((ord(huruf) - 65 - 5) % 26) + 65)
6             pesan_terdekripsi += huruf_terdekripsi
7         else:
8             pesan_terdekripsi += huruf
9     return pesan_terdekripsi
10
11 pesan_terenkripsi = [
12     "xfqfr bfm dz",
13     "gjxtp lzj rfz ifkyfw jxi snm",
14     "gwt, gjxtp qz rfz rfpfs in bfwlty lfp?",
15     "fpz xdfsl pfrz, rfz lfp ofin ufhwfpz",
16     "dfsl pnwnr xynhpjw otrtp pz pnhp ifwn lwzu"
17 ]
18
19 for index, pesan in enumerate(pesan_terenkripsi):
20     pesan_terdekripsi = dekripsi_pesan(pesan)
21     print(f"Pesan {index + 1}: {pesan_terdekripsi}")

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
PS C:\Users\ACER\Dropbox\PC\Documents\Coolyeah\Semester 3\10. ESD SG> python -u "c:\Users\ACER\Dropbox\PC\Documents\Coolyeah\Semester 3\10. ESD SG\esmen\soal7.py"
Pesan 1: salam wahyu
Pesan 2: besok gue mau daftar esd nih
Pesan 3: bro, besok lu mau makan di wartog gak?
Pesan 4: aku sayang kamu, mau gak jadi pacarku
Pesan 5: yang kirim sticker jomok ku kick dari grup
```

No.8

```
soal8.py M X
Soal Assesmen > soal8.py > ...
1 produk = [
2     {"Nama": "TV", "Kategori": "elektronik", "Harga": 1000},
3     {"Nama": "headphone", "Kategori": "elektronik", "Harga": 200},
4     {"Nama": "baju", "Kategori": "fashion", "Harga": 50},
5     {"Nama": "gitar", "Kategori": "musik", "Harga": 300},
6     {"Nama": "sepatu", "Kategori": "olahraga", "Harga": 80},
7     {"Nama": "kamera", "Kategori": "elektronik", "Harga": 600}
8 ]
9
10 data_pelanggan = {
11     "Rina": {"Minat": ["elektronik", "musik"], "Beli": ["TV", "headphone"]},
12     "Budi": {"Minat": ["fashion", "musik"], "Beli": ["baju", "gitar"]},
13     "Hartono": {"Minat": ["olahraga", "elektronik"], "Beli": ["sepatu", "kamera"]}
14 }
15
16 def rekomendasi_produk(nama_pelanggan):
17     minat_pelanggan = data_pelanggan[nama_pelanggan]["Minat"]
18
19     rekomendasi = []
20     for p in produk:
21         if p["Kategori"] in minat_pelanggan:
22             rekomendasi.append(p["Nama"])
23
24     return rekomendasi
25
26 rekomendasi_rina = rekomendasi_produk("Rina")
27 print(f"Rina {rekomendasi_rina}")
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
PS C:\Users\ACER\Dropbox\PC\Documents\Coolyeah\Semester 3\10. ESD SG> python -u "c:\Users\ACER\esmen\soal8.py"
Rina ['TV', 'headphone', 'gitar', 'kamera']
```


No.9

```
soal9.py M X
Soal Assesmen > soal9.py > ...
1  from collections import Counter
2
3  def cek_anak_nakal(nama_anak):
4      counter_nama = Counter(nama_anak)
5      max_kemunculan = max(counter_nama.values())
6
7      if max_kemunculan == 1:
8          return "Semuanya anak baik"
9      else:
10         anak_nakal = [nama for nama, kemunculan in counter_nama.items() if kemunculan == max_kemunculan]
11         return ' dan '.join(anak_nakal) + " Nakal"
12
13 percakapan_1 = ["Bagas", "Dimas", "Bagas", "Bagas", "Indra", "Gilang", "Gilang", "Hana", "Fajar", "Fajar"]
14 percakapan_2 = ["Bagas", "Dimas", "Fajar", "Bagas", "Indra", "Gilang", "Gilang", "Bagas", "Fajar", "Fajar"]
15 percakapan_3 = ["Aisyah", "Bagas", "Dewi", "Dimas", "Eka", "Fajar", "Gilang", "Hana", "Indra", "Jihan"]
16
17 hasil_1 = cek_anak_nakal(percakapan_1)
18 hasil_2 = cek_anak_nakal(percakapan_2)
19 hasil_3 = cek_anak_nakal(percakapan_3)
20
21 print(hasil_1)
22 print(hasil_2)
23 print(hasil_3)

PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS

PS C:\Users\ACER\Dropbox\PC\Documents\Coolyeh\Semester 3\10. ESD SG> python -u "c:\Users\ACER\Dropbox\PC\Documents\Coolyeh\
esmen\soal9.py"
Bagas Nakal
Bagas dan Fajar Nakal
Semuanya anak baik
```

No.10

```
soal10.py x
Soal Asmesmen > soal10.py > hitung_kembalian
1  def hitung_kembalian(total_pembayaran, total_belanja):
2      pecahan = [100000, 50000, 20000, 10000, 5000, 2000, 1000, 500, 200, 100]
3      kembalian = total_pembayaran - total_belanja
4      hasil = {}
5
6      for nilai in pecahan:
7          if kembalian >= nilai:
8              jumlah = kembalian // nilai
9              hasil[str(nilai)] = jumlah
10             kembalian -= nilai * jumlah
11
12     return hasil
13
14     # Contoh penggunaan
15     hasil_1 = hitung_kembalian(10000, 7500)
16     hasil_2 = hitung_kembalian(5000, 1100)
17     hasil_3 = hitung_kembalian(178000, 90500)
18
19     print(hasil_1)
20     print(hasil_2)
21     print(hasil_3)
22
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS
PS C:\Users\ACER\Dropbox\PC\Documents\Coolyeah\Semester 3\10. ESD SG> python -u "c:\Users\esmen\soal10.py"
{'2000': 1, '500': 1}
{'2000': 1, '1000': 1, '500': 1, '200': 2}
{'50000': 1, '20000': 1, '10000': 1, '5000': 1, '2000': 1, '500': 1}
```