

TUGAS 4

Nama : Fani Aulias Furqan

NIM: 211001124

AI

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1  #Nomor 1
2  list1=[]
3  list2=[]
4  print(50*"-")
5  jmlh=0
6  for i in range(5):
7      nama=input("Masukkan Nama : ")
8      x=int(input("Masukkan Nilai : "))
9      print(50*"-")
10     jmlh=jmlh+x
11     list1.append(nama)
12     list2.append(x)
13
14     print(50*"-")
15     print(f"No\tNam\t\tNilai")
16     print(50*"-")
17     for i in range(5):
18         print(f"{i+1}\t{list1[i]}\t\t{list2[i]}")
19     print(50*"-")
20     print("Jumlah Mahasiswa = ", len(list1))
21     print("Rata-rata =", jmlh/len(list1))
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23 #Nomor 2
24 list1=[]
25 list2=[]
26 list3=[]
27 print(50*"-")
28 jmlh=0
29 lulus=0
30 galulus=0
31 for i in range (5):
32     nama=input("Masukkan Nama : ")
33     x=int(input("Masukkan Nilai : "))
34     if x >= 60:
35         grade="Lulus"
36         lulus=lulus+1
37     else :
38         grade="Tidak Lulus"
39         galulus=galulus+1
40     print(50*"-")
41     jmlh=jmlh+x
42     list1.append(nama)
43     list2.append(x)
44     list3.append(grade)
45
46     print(50*"-")
47     print(f"No\tNama\t\tNilai\tKeterangan")
48     print(50*"-")
49     for i in range(5):
50         print(f"{i+1}\t{list1[i]}\t\t{list2[i]}\t{list3[i]}")
51

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52  #nomor 3
53  list1=[]
54  list2=[]
55  list3=[]
56  list4=[]
57  list5=[]
58  list6=[]
59  jmlh1=0
60  jmlh2=0
61  jmlh3=0
62  jmlh4=0
63
64  print(50*"~")
65
66  jumlah=int(input("Jumlah Mahasiswa : "))
67  for i in range(jumlah):
68      nama=input("Nama Masiswa : ")
69      tugas=int(input("Masukkan Nilai Tugas : "))
70      uts=int(input("Masukkan Nilai UTS : "))
71      uas=int(input("Masukkan Nilai UAS : "))
72      na=(30/100*tugas) + (30/100*uts) + (40/100*uas)
73      jmlh1=jmlh1+tugas
74      jmlh2=jmlh2+uts
75      jmlh3=jmlh3+uas
76      jmlh4=jmlh4+na
77      list2.append(nama)
78      list3.append(tugas)
79      list4.append(uts)
80      list5.append(uas)
81      list6.append(na)
82
83  print("Nilai Akhir :"+str(na))

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85 print(50*"-")
86 list1.append(jumlah)
87 list2.append(nama)
88 list3.append(tugas)
89 list4.append(uts)
90 list5.append(uas)
91 list6.append(na)
92
93 print(f"No\tNama\tTugas\tUTS\tUAS\tNilai Akhir")
94 print(50*"-")
95 for i in range(2):
96     print(f"{i+1}\t{list1[i]}\t{list3[i]}\t{list4[i]}\t{list5[i]}\t{list6[i]}")
97
98 print(50*"-")
99 print("Rata-rata Tugas =", jmlh1/len(list3))
00 print("Rata-rata UTS = ",jmlh2/len(list4))
01 print("Rata-rata UAS =",jmlh3/len(list5))
02 print("Rata-rata Nilai = ",jmlh4/len(list6))
03
04 #nomor 4
05
06 pilihane=int(input("Masukkan Pilihan Anda : 1. Ganjil | 2. Genap"))
07 awale=int(input("Masukkan Nilai Awal : "))
08 akhire=int(input("Masukkan Nilai Akhir : "))
09
10 if pilihane==1:
11     for x in range(awale,akhire):
12         if x % 2==1:
13             print(x)

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115 #nomor 5
116
117 list=[]
118 nilai=int(input("Berapa Banyak Data : "))
119
120 for i in range (nilai):
121     x=int(input("Masukkan Nilainya : "))
122     list.append(x)
123
124 m=max(list)
125 print("Nilai Maximal Adalah :"+str(m))

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127 #nomor 6.a
128 list=[]
129 banyak=int(input("Masukkan Berapa Banyak Data : "))
130
131 for i in range (banyak):
132     x=int(input("Masukkan Nilainya : "))
133     if x%2==0:
134         list.append(x)
135
136 print(list)

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```
138 #nomor 6.b
139 list=[]
140 banyak=int(input("Masukkan Berapa Banyak Data : "))
141
142 for i in range (banyak):
143     x=int(input("Masukkan Nilainya : "))
144     if x>0:
145         list.append(x)
146
147 print(list)
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149 #nomor 6.c
150 list=[]
151 banyak=int(input("Masukkan Berapa Banyak Data : "))
152
153 for i in range (banyak):
154     x=int(input("Masukkan Nilainya : "))
155     if x%3==0 and x %2==1:
156         list.append(x)
157
158 print(list)
159 #nomor 6.d
160
161 list=[]
162 banyak=int(input("Masukkan Berapa Banyak Data : "))
163
164 for i in range (banyak):
165     x=int(input("Masukkan Nilainya : "))
166     if x%3!=0:
167         list.append(x)
168
169 print(list)
```

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171  #nomor 7
172
173  list=[]
174  banyak=int(input("Masukkan Berapa Banyak Data : "))
175
176  for i in range (banyak):
177      x=int(input("Masukkan Nilainya : "))
178      if x%5==0:
179          list.append(x)
180
181  print(list)
182
183  #Nomor 8
184  import numpy as np
185
186  u=np.array([1,2,3])
187  v=np.array([4,5,6])
188  print("Vektor u=",u)
189  print("Vektor v=",v)
190  print("Penjumlahan vektor : u+v =",u+v)
191  print("Perkalian Hadamrd Vektor : u*v = ",u*v)
192
193  #nomor 10
194  list1=[]
195  list2=[]
196
197  banyak=int(input("Masukkan Banyak Data : "))
198  for i in range(banyak):
199      x=int(input("Masukkan Nilai: "))
200      if x>0:
201          list1.append(x)
202      else:
203          list2.append(x)
204
205  if len(list1) > len(list2):
206      print("Bilangan Positif Lebih Banyak")
207  else:
208      print("Bilangan Negatif Lebih Banyak")

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