Alyani Noor Septalia
2009106100
Informatika B 2020

Post Test KB 1

Screenshoot Output

	id	Nama	Sistolik	Diastolik	Umur	Kategori
0	1	Azka	70	50	13	Rendah
1	2	Kenzo	120	80	5	Optimal
2	3	Lulu	135	82	15	Hipertensi Tk.1
3	4	Ajeng	143	93	17	Hipertensi Tk.2
4	5	Jeje	85	50	20	Rendah
5	6	Adit	120	80	19	Normal
6	7	Karin	138	95	34	Hipertensi Tk.1
7	8	Abi	170	120	42	Hipertensi Tk.2
8	9	Clara	89	59	25	Rendah
9	10	Abdul	168	101	30	Hipertensi Tk.2
10	11	Hartono	89	58	65	Rendah
11	12	Tejo	100	75	70	Normal
12	13	Sarmila	115	80	62	Normal
13	14	Sri	140	90	75	Hipertensi
14	15	Ridwan	120	80	60	Normal
15	16	Jae	135	87	29	Hipertensi Tk.1
16	17	Sharon	120	80	24	Normal

Gambar 1 Dataset Awal

	id	Nama	Sistolik	Diastolik	Umur	Kategori
0	1	Ben	90	60	9	Optimal
1	2	Kenzo	120	80	5	Optimal
2	3	Lulu	135	82	15	Hipertensi Tk.1
3	4	Ajeng	143	93	17	Hipertensi Tk.2
4	5	Jeje	85	50	20	Rendah
5	6	Adit	120	80	19	Normal
6	7	Karin	138	95	34	Hipertensi Tk.1
7	8	Abi	170	120	42	Hipertensi Tk.2
8	9	Clara	89	59	25	Rendah
9	10	Abdul	168	101	30	Hipertensi Tk.2
10	11	Hartono	89	58	65	Rendah
11	12	Tejo	100	75	70	Normal
12	13	Sarmila	115	80	62	Normal
13	14	Sri	140	90	75	Hipertensi
14	15	Ridwan	120	80	60	Normal
15	16	Jae	135	87	29	Hipertensi Tk.1
16	17	Sharon	120	80	24	Normal

Gambar 2 Dataset Setelah Proses Mengubah Data

Source Code

```
import pandas as pd
import csv

df = pd.read_csv('daftartensi.csv')
df

noid = int(input('ID yang akan diganti: ')) - 1
nama = input('Nama : ')
sistolik = int(input('Sistolik : '))
diastolik = int(input('Diastolik : '))
umur = int(input('Umur : '))

if 1 <= umur <= 18:
    if sistolik < 80 or diastolik < 55:
        a = 'Rendah'
    elif 80 <= sistolik <= 120 or 55 <= diastolik <= 80:
        a = 'Optimal'
    elif 120 < sistolik <= 129 or diastolik < 80:
        a = 'Tinggi'
    elif 130 <= sistolik <= 139 or 80 <= diastolik < 89:
        a = 'Hipertensi Tk.1'
    elif sistolik >= 140 or diastolik >= 90:
        a = 'Hipertensi Tk.2'
elif 19 <= umur <= 59:
    if sistolik < 90 or diastolik < 60:
        a = 'Rendah'
    elif 90 < sistolik <= 120 or 60 <= diastolik <= 80:
        a = 'Normal'
    elif 120 <= sistolik <= 140 or 90 <= diastolik <= 100:
        a = 'Hipertensi Tk.1'
    elif sistolik >= 160 or diastolik >= 100:
        a = 'Hipertensi Tk.2'
elif umur >= 60:
    if sistolik < 90 or diastolik < 60:
        a = 'Rendah'
    elif 90 <= sistolik <= 120 or 60 <= diastolik <= 90:
        a = 'Normal'
    elif sistolik >= 140 or diastolik >= 90:
        a = 'Hipertensi'
else:
    print('Nilai diluar ambang batas')

df.loc[noid,['Nama','Sistolik','Diastolik','Umur','Kategori']] = [nama, sistolik, diastolik, umur, a]
df.to_csv('daftartensi.csv', index=False)

df
```