













Panduan Penggunaan Program

1. Buka folder
2. Di dalam folder terdapat 2 macam program yang bernama greedy.exe dan greedy.py (yang diberi kotak merah)

Name	Date modified	Type	Size
 Analisa Program.docx	06/11/2018 18:03	Microsoft Word D...	1.176 KB
 Analisa Program.pdf	06/11/2018 18:02	PDF File	1.130 KB
 flowchart.txt	06/11/2018 18:01	Text Document	1 KB
 greedy.exe	06/11/2018 17:53	Application	4.728 KB
 greedy2.py	06/11/2018 17:57	Python File	5 KB
 Pseudocode.docx	06/11/2018 17:40	Microsoft Word D...	14 KB

3. Jika pada komputer Anda tidak terdapat aplikasi python atau pada komputer Anda terpasang python versi 2, maka silahkan menjalankan program yang bernama greedy.exe. Jika pada komputer Anda sudah terpasang Aplikasi python versi 3, maka silahkan menjalankan program yang bernama greedy.py
4. Langkah – langkah penggunaan program greedy.exe :

- Pertama, pilih dan enter atau klik 2 kali file bernama greedy.exe

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- Kedua, program akan menampilkan hasil program

```
D:\Kuliah\Analisis dan Desain Algoritma\Tugas\Program Greedy\greedy2.exe

Semua Kemungkinan :
1 - ['A', 'B', 'C', 'D', 'E', 'F', 'G', 'A'] = 545
2 - ['A', 'B', 'C', 'D', 'E', 'G', 'F', 'A'] = 585
3 - ['A', 'B', 'C', 'D', 'F', 'E', 'G', 'A'] = 595
4 - ['A', 'B', 'C', 'D', 'F', 'G', 'E', 'A'] = 685
5 - ['A', 'B', 'C', 'D', 'G', 'E', 'F', 'A'] = 705
6 - ['A', 'B', 'C', 'D', 'G', 'F', 'E', 'A'] = 755
7 - ['A', 'B', 'C', 'E', 'D', 'F', 'G', 'A'] = 475
8 - ['A', 'B', 'C', 'E', 'D', 'G', 'F', 'A'] = 585
9 - ['A', 'B', 'C', 'E', 'F', 'D', 'G', 'A'] = 595
10 - ['A', 'B', 'C', 'E', 'F', 'G', 'D', 'A'] = 555
11 - ['A', 'B', 'C', 'E', 'G', 'D', 'F', 'A'] = 635
12 - ['A', 'B', 'C', 'E', 'G', 'F', 'D', 'A'] = 485
13 - ['A', 'B', 'C', 'F', 'D', 'E', 'G', 'A'] = 515
14 - ['A', 'B', 'C', 'F', 'D', 'G', 'E', 'A'] = 725
15 - ['A', 'B', 'C', 'F', 'E', 'D', 'G', 'A'] = 585
16 - ['A', 'B', 'C', 'F', 'E', 'G', 'D', 'A'] = 595
17 - ['A', 'B', 'C', 'F', 'G', 'D', 'E', 'A'] = 675
18 - ['A', 'B', 'C', 'F', 'G', 'E', 'D', 'A'] = 475
19 - ['A', 'B', 'C', 'G', 'D', 'E', 'F', 'A'] = 575
20 - ['A', 'B', 'C', 'G', 'D', 'F', 'E', 'A'] = 675
21 - ['A', 'B', 'C', 'G', 'E', 'D', 'F', 'A'] = 505
22 - ['A', 'B', 'C', 'G', 'E', 'F', 'D', 'A'] = 475
23 - ['A', 'B', 'C', 'G', 'F', 'D', 'E', 'A'] = 555
24 - ['A', 'B', 'C', 'G', 'F', 'E', 'D', 'A'] = 425
25 - ['A', 'B', 'D', 'C', 'E', 'F', 'G', 'A'] = 615
26 - ['A', 'B', 'D', 'C', 'E', 'G', 'F', 'A'] = 655
27 - ['A', 'B', 'D', 'C', 'F', 'E', 'G', 'A'] = 655
28 - ['A', 'B', 'D', 'C', 'F', 'G', 'E', 'A'] = 745
```

Halaman awal output program

```
D:\Kuliah\Analisis dan Desain Algoritma\Tugas\Program Greedy\greedy2.exe

710 - ['A', 'G', 'F', 'D', 'B', 'E', 'C', 'A'] = 515
711 - ['A', 'G', 'F', 'D', 'C', 'B', 'E', 'A'] = 695
712 - ['A', 'G', 'F', 'D', 'C', 'E', 'B', 'A'] = 595
713 - ['A', 'G', 'F', 'D', 'E', 'B', 'C', 'A'] = 445
714 - ['A', 'G', 'F', 'D', 'E', 'C', 'B', 'A'] = 475
715 - ['A', 'G', 'F', 'E', 'B', 'C', 'D', 'A'] = 565
716 - ['A', 'G', 'F', 'E', 'B', 'D', 'C', 'A'] = 585
717 - ['A', 'G', 'F', 'E', 'C', 'B', 'D', 'A'] = 515
718 - ['A', 'G', 'F', 'E', 'C', 'D', 'B', 'A'] = 615
719 - ['A', 'G', 'F', 'E', 'D', 'B', 'C', 'A'] = 465
720 - ['A', 'G', 'F', 'E', 'D', 'C', 'B', 'A'] = 545

Maps :
A -> {'B': 6, 'C': 4, 'D': 4, 'E': 20, 'F': 12, 'G': 8}
B -> {'A': 6, 'C': 4, 'D': 6, 'E': 7, 'F': 4, 'G': 12}
C -> {'A': 4, 'B': 4, 'D': 12, 'E': 8, 'F': 9, 'G': 4}
D -> {'A': 4, 'B': 6, 'C': 12, 'E': 3, 'F': 5, 'G': 12}
E -> {'A': 20, 'B': 7, 'C': 8, 'D': 3, 'F': 8, 'G': 8}
F -> {'A': 12, 'B': 4, 'C': 9, 'D': 5, 'E': 8, 'G': 5}
G -> {'A': 8, 'B': 12, 'C': 4, 'D': 12, 'E': 8, 'F': 5}

Groupy Yang Harus Disembuhkan:
A = 0 = 0 menit
B = 2 = 10 menit
C = 4 = 20 menit
D = 5 = 25 menit
E = 1 = 5 menit
F = 2 = 10 menit
G = 3 = 15 menit
```

Halaman akhir output program

5. Langkah – langkah penggunaan program greedy.py :

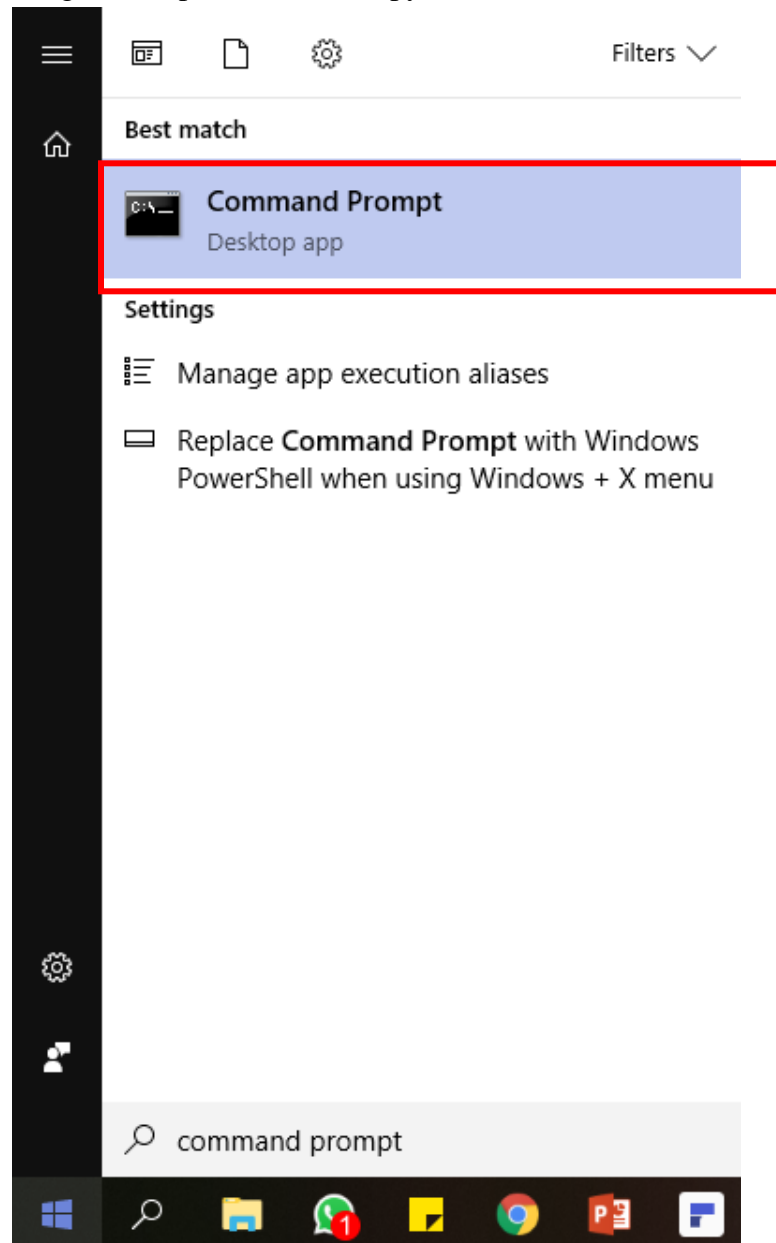
- Pertama, yaitu tekan tombol Windows pada keyboard atau klik icon windows pada taskbar









- Kedua, ketik python



- Ketiga, klik aplikasi bernama python (command line)



- Keempat, ketika python pada command prompt. Kemudian buka folder dan drag nama file yang bernama greedy2.py dan arahkan ke command prompt.

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Drag file program greedy2.py

```
C:\Windows\system32\cmd.exe
C:\Users\sabrisangjaya>python "D:\Semester 5\ADA\greedy2.py"
```

Hasil drag file program greedy2.py pada command line python

- Keenam, tekan enter
- Ketujuh, program akan menampilkan output program

```
C:\Windows\system32\cmd.exe - python "D:\Semester 5\ADA\greedy2.py"
Rute Brute Force : ['A', 'C', 'G', 'F', 'B', 'E', 'D', 'A']
Waktu Total : 395

Solusi Greedy
Kota = Waktu Tempuh + Waktu Penyembuhan
B = 60 + 10 | C = 40 + 20 | D = 40 + 25 | E = 200 + 5 | F = 120 + 10 | G = 80 + 15 |
B = 70 | C = 60 | D = 65 | E = 205 | F = 130 | G = 95 |
Pilih C

B = 40 + 10 | D = 120 + 25 | E = 80 + 5 | F = 90 + 10 | G = 40 + 15 |
B = 50 | D = 145 | E = 85 | F = 100 | G = 55 |
Pilih B

D = 60 + 25 | E = 70 + 5 | F = 40 + 10 | G = 120 + 15 |
D = 85 | E = 75 | F = 50 | G = 135 |
Pilih F

D = 50 + 25 | E = 80 + 5 | G = 50 + 15 |
D = 75 | E = 85 | G = 65 |
Pilih G

D = 120 + 25 | E = 80 + 5 |
D = 145 | E = 85 |
Pilih E

D = 30 + 25 |
D = 55 |
Pilih D

Kembali ke A + 40
Rute Greedy : ['A', 'C', 'B', 'F', 'G', 'E', 'D', 'A']
Waktu Total : 405

Perbandingan BruteForce dan Greedy
Solusi bruteForce -># 1 Rute Brute Force : ['A', 'C', 'G', 'F', 'B', 'E', 'D', 'A'] Waktu Total : 395
# 2 Rute Brute Force : ['A', 'D', 'E', 'B', 'F', 'G', 'C', 'A'] Waktu Total : 395
Solusi greedy -># 3 Rute Brute Force : ['A', 'C', 'B', 'F', 'G', 'E', 'D', 'A'] Waktu Total : 405
# 4 Rute Brute Force : ['A', 'D', 'E', 'G', 'F', 'B', 'C', 'A'] Waktu Total : 405
# 5 Rute Brute Force : ['A', 'B', 'C', 'G', 'F', 'E', 'D', 'A'] Waktu Total : 425

Tekan enter untuk keluar
```