

```
1 "E:\1 \ \3 \ \1 \ \ \ \ \ \1 \ \ \ \ \ \ \ \ \ \ \1_LW_ \ \ \ \2\6 \ \ \ \2 python code\01_My_Python_Code\Scripts\python.
   exe" "D:\Python\Pycharm\setroute\PyCharm Community Edition 2021.2.3\plugins\python-ce\helpers\pydev\pydevconsole.py" --mode=client --port=4113
2
3 import sys; print('Python %s on %s' % (sys.version, sys.platform))
4 sys.path.extend(['E:\1 \ \ \ \3 \ \ \ \ \ \1 \ \ \ \ \ \ \ \ \ \ \1_ \ \ \ \ \ \ \ \ \ \ \1_LW_ \ \ \ \2\6 \ \ \ \2 python code\
   01_My_Python_Code', 'E:/1 \ \ \ \3 \ \ \ \ \ \1 \ \ \ \ \ \ \ \ \ \ \1_ \ \ \ \ \ \ \ \ \ \ \1_LW_ \ \ \ \2\6 \ \ \ \2 python code/
   01_My_Python_Code'])
5
6 PyDev console: starting.
7
8 Python 3.9.7 (tags/v3.9.7:1016ef3, Aug 30 2021, 20:19:38) [MSC v.1929 64 bit (AMD64)] on win32
9 >>> runfile('E:/1 \ \ \ \3 \ \ \ \ \ \1 \ \ \ \ \ \ \ \ \ \ \1_ \ \ \ \ \ \ \ \ \ \ \1_LW_ \ \ \ \2\6 \ \ \ \2 python code\01_My_Python_Code/
   main_BACASP_official_gurobi.py', wdir='E:/1 \ \ \ \3 \ \ \ \ \ \1 \ \ \ \ \ \ \ \ \ \ \1_ \ \ \ \ \ \ \ \ \ \ \1_LW_ \ \ \ \2\6 \ \ \ \2 python
   code\01_My_Python_Code')
10 Backend TkAgg is interactive backend. Turning interactive mode on.
11 Start.....
12
13 This is the R_5_3_standerd_test.xlsx optimization results solved by Gurobi
14
15 Set parameter TimeLimit to value 1200
16 Set parameter MIPGap to value 0.005
17
18
19
20 Problem status = 2 , is Optimal
21
22 Problem has 2 objectives
23 Gurobi found 3 solutions
24 Solution 0 :
25     Obj 0 = 3.0
26     Obj 1 = 1.0
27 Solution 1 :
28     Obj 0 = 3.0
29     Obj 1 = 2.0
30 Solution 2 :
31     Obj 0 = 4.0
32     Obj 1 = 2.0
33
34
35
36 Final solution:
37     Obj0 = 2.0
38     Obj1 = 1.0
39     Total movement of crane: 0.0
40     Total duration time in berth position: 12.0
41     Total index of q during berthing: 222.0
42
43 Specific arrangement:
44     V_id: 0 li: 4.0 xi: 6.0 bow of i: 4.0 tail of i: 8.0 gama_i0: 0.0 gama_i1: 3.0 duration_time_i: 3.0 demand_i: 140 work load_i: 140.0
45     V_id: 1 li: 7.0 xi: 11.5 bow of i: 8.0 tail of i: 15.0 gama_i0: 1.0 gama_i1: 3.0 duration_time_i: 2.0 demand_i: 120 work load_i: 120.0
46     V_id: 2 li: 3.0 xi: 1.5 bow of i: 0.0 tail of i: 3.0 gama_i0: 0.0 gama_i1: 3.0 duration_time_i: 3.0 demand_i: 140 work load_i: 140.0
47     V_id: 3 li: 8.0 xi: 13.4 bow of i: 9.4 tail of i: 17.4 gama_i0: 0.0 gama_i1: 1.0 duration_time_i: 1.0 demand_i: 60 work load_i: 60.0
48     V_id: 4 li: 9.0 xi: 21.9 bow of i: 17.4 tail of i: 26.4 gama_i0: 0.0 gama_i1: 3.0 duration_time_i: 3.0 demand_i: 60 work load_i: 60.0
49
50
51 Finished and CPU Time: 278.000000
52
53
54
55
```