```
1  "E:\1 □□□□\3 □□□□□\1 □□□□□□□\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=7228
2
3  import sys; print('Python %s on %s' % (sys.version, sys.platform))
4  sys.path.extend(['E:\\1 □□□□\\3 □□□□□\\1 □□□□□□□\\1 □□□□□□□□□\\1_□□□□□□_□□□□\\1_LW_□□□□2\\6 □□□□\\2 python code\\
   01_My_Python_Code', 'E:/1 □□□□/3 □□□□□/1 □□□□□□□/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_□□□□□□_□□□□/1_LW_□□□□2/6 □□□□/2 python code/01_My_Python_Code/
   main_BACASP_official_gurobi.py', wdir='E:/1 □□□□/3 □□□□□/1 □□□□□□□/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_9_9 _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 =  9 , is NOT Optimal
21
22 Problem has 2  objectives
23 Gurobi found  8  solutions
24     Solution 0 :
25         Obj 0  =  3.0
26         Obj 1  =  7.0
27     Solution 1 :
28         Obj 0  =  3.0
29         Obj 1  =  8.0
30     Solution 2 :
31         Obj 0  =  4.0
32         Obj 1  =  10.0
33     Solution 3 :
34         Obj 0  =  5.0
35         Obj 1  =  11.0
36     Solution 4 :
37         Obj 0  =  6.0
38         Obj 1  =  11.0
39     Solution 5 :
40         Obj 0  =  7.0
41         Obj 1  =  11.0
42     Solution 6 :
43         Obj 0  =  8.0
44         Obj 1  =  11.0
45     Solution 7 :
46         Obj 0  =  15.0
47         Obj 1  =  21.0
48
49
50
51 Final solution:
52     Obj0 =  2.0
53     Obj1 =  7.0
54     Total movement of crane:  0.0
55     Total duration time in berth position:  11.0
56     Total index of q during berthing:  462.0
57
58     Specific arrangement:
59      V_id:  0  li: 4.0   xi: 12.4   bow of i: 10.4  tail of i: 14.4   gama_i0: -0.0  gama_i1: 2.0  duration_time_i: 2.0  demand_i: 80  work load_i: 80.0
60      V_id:  1  li: 6.0   xi: 18.0   bow of i: 15.0  tail of i: 21.0   gama_i0: 2.0  gama_i1: 3.0  duration_time_i: 1.0  demand_i: 60  work load_i: 60.0
61      V_id:  2  li: 4.0   xi: 2.0  bow of i: 0.0   tail of i: 4.0  gama_i0: 0.0  gama_i1: 1.0  duration_time_i: 1.0  demand_i: 80  work load_i: 80.0
62      V_id:  3  li: 8.0   xi: 19.0   bow of i: 15.0  tail of i: 23.0   gama_i0: 1.0  gama_i1: 2.0  duration_time_i: 1.0  demand_i: 100   work load_i: 100.0
63      V_id:  4  li: 9.0   xi: 19.0   bow of i: 14.5  tail of i: 23.5   gama_i0: -0.0  gama_i1: 1.0  duration_time_i: 1.0  demand_i: 120   work load_i: 120.0
64      V_id:  5  li: 6.0   xi: 7.4  bow of i: 4.4    tail of i: 10.4   gama_i0: 0.0  gama_i1: 1.0  duration_time_i: 1.0  demand_i: 80  work load_i: 80.0
65      V_id:  6  li: 3.0   xi: 1.5  bow of i: 0.0    tail of i: 3.0  gama_i0: 1.0  gama_i1: 3.0  duration_time_i: 2.0  demand_i: 80  work load_i: 80.0
66      V_id:  7  li: 7.0   xi: 6.9  bow of i: 3.4    tail of i: 10.4   gama_i0: 1.0  gama_i1: 2.0  duration_time_i: 1.0  demand_i: 120   work load_i: 120.0
67      V_id:  8  li: 7.0   xi: 9.6  bow of i: 6.1    tail of i: 13.1   gama_i0: 2.0  gama_i1: 3.0  duration_time_i: 1.0  demand_i: 120   work load_i: 120.0
68
69
70 Finished and CPU Time: 1293.000000
71
72
73
74
```