Project

- report1
  - __pycache__
  - data
    - 2D-class1_A.dat
    - 2D-class1_B.dat
    - 2D-class1_C.dat
    - 2D-class1_D.dat
    - 2D-class2_A.dat
    - 2D-class2_B.dat
    - 2D-class2_C.dat
    - 2D-class2_D.dat
    - 2D-test_A.dat
    - 2D-test_B.dat
    - 2D-test_C.dat
    - 2D-test_D.dat
  - results
  - .DS_Store
  - answer.pdf
  - main.pdf
  - main.py
  - report1.aux
  - report1.log
  - report1.pages
  - report1.pdf
  - report1.synctex.gz
  - report1.tex
  - report1ReadMe.pdf
  - resources.py
  - resourcesNewVersion.py
  - temp
  - temp.txt

sample2.c | main.py | Settings | report1.tex | resources...

```
1  import csv
2  import numpy as nu
3  import scipy as sc
4  from scipy import linalg as la
5  from collections import namedtuple
6  import matplotlib.pyplot as pl
7  import sympy as sy
8  import math as ma
9  from datetime import time
10 import multiprocessing as mp
11 import os
12
13 LARGE_NUMBER = 1e8
14 STEP = 0.0001
15 DELTA = 1e-5
16 validDirections = {'u': [0, STEP], 'd': [0, -STI
17     'ur': [STEP, STEP], 'ul': [-STEP, STEP], 'd
18 DATASET_ID = 'A'
19 recogLineFile = 'results/recogLineOfNeResult' +
20 figureFile = 'ResultFigure' + DATASET_ID + '.pn
21 plotAxisDict = {
22     'A': [-10, 70, 50, 100],
23     'B': [-13, 55, 38, 100],
24     'C': [-10, 70, 10, 62],
25     'D': [-10, 70, 50, 103]
26 }
27
28
29 # NOTE: - readFile operations:  **********
30
31 def readFileOfPoints(FILE):
32     with open(FILE, 'rt') as file:
33         lines = csv.reader(file, delimiter=' ')
34         points = [  XYPoint([float(line[0]), fl
35     return points
36
37
38 def readFileOfCorrectClasses(FILE):
39     with open(FILE, 'rt') as file:
40         lines = csv.reader(file, delimiter=' ')
41         correctClasses = [  int(line[2]) for li
42     return correctClasses
43
44
45
46 # NOTE: - class definitions:  **********
47
48 class XYPoint():
```

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