

BVRITH COLLEGE OF ENGINEERING FOR WOMEN AIRPORT CONSTRUCTION TEAM-64

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Introduction

- Airport construction requires innovative thinking and experience
- Developed to maintain the details of passengers, security personnel in an airport.
- Piconesia has decided to build the longest possible landing strip on their island
- For this problem we model the boundary as a polygon

Approach

- Mathematical formulas required to find the distance between two coordinates of a polygon
- finding the longest straight line segment that fits inside the polygon

Learnings

- Learned use of latex
- We have learnt how to solve the problem
- Management of time
- Leadership qualities
- learned about pushing files to git

Challenges

- understanding problem statement and forming required process steps to address the problem
- understanding gitlab and miktex
- we came across more errors in the project which being a huge challenge to resolve the errors and fix to get the input
- pushing the files into git was a big challenge to us

GIT Repo

The screenshot shows a web browser window displaying a GitLab repository page. The browser's address bar shows the URL `gitlab.com/20wh1a6634/air-port-constructions`. The GitLab interface includes a sidebar with navigation links, a top navigation bar with a search bar, and a main content area. The sidebar lists various project features like Project information, Repository, Issues, Merge requests, CI/CD, Security & Compliance, Deployments, Monitor, Infrastructure, Packages & Registries, Analytics, Wiki, Snippets, and a Collapse sidebar option. The top navigation bar contains buttons for 'Set up CI/CD', 'Configure Integrations', and 'Add Security Testing', along with a search bar labeled 'Search GitLab'. The main content area displays a table of repository files and their commit history.

Name	Last commit	Last update
README.md	Initial commit	3 days ago
python_22-10-2021.tex	Upload New File	2 days ago
python_23-10-2021.tex	Upload New File	1 day ago
python_project-21-10-21.tex	Upload New File	3 days ago

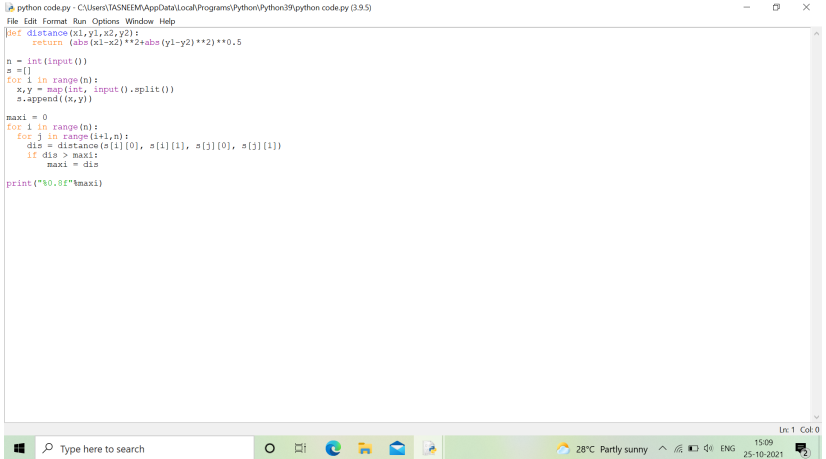
Below the table, there is a section for the selected file, `README.md`, which displays the file's content: `air port constructions`.

The bottom of the screenshot shows the Windows taskbar with the search bar, task view button, and several application icons. The system tray on the right indicates the temperature is 30°C, mostly sunny, and the date is 25-10-2021.

Statistics

- Number of lines of code: 14
- Number of functions: 3

screenshots of code



```
python code.py - C:\Users\TASNEEM\AppData\Local\Programs\Python\Python39\python code.py (3.9.5)
File Edit Format Run Options Window Help

def distance(x1,y1,x2,y2):
    return (abs(x1-x2)**2+abs(y1-y2)**2)**0.5

n = int(input())
s = []
for i in range(n):
    x,y = map(int, input().split())
    s.append((x,y))

maxi = 0
for i in range(n):
    for j in range(i+1,n):
        dis = distance(s[i][0], s[i][1], s[j][0], s[j][1])
        if dis > maxi:
            maxi = dis

print("%.8f"%maxi)
```

Ln 1 Col 0

Windows taskbar: Search bar, task icons (File Explorer, Edge, etc.), system tray (28°C Partly sunny, 15:09, 25-10-2021).

output of the code



The screenshot shows an IDE Shell window titled "IDLE Shell 3.9.5". The window contains the following text:

```
File Edit Shell Debug Options Window Help
Python 3.9.5 (tags/v3.9.5:0a7dcb4, May 3 2021, 17:27:52) [MSC v.1928 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
- RESTART: C:/Users/TASNEEM/AppData/Local/Programs/Python/Python39/python code 64.py
7
0 20
40 0
40 20
70 50
50 70
30 50
0 50
76.15773106
>>>
===== RESTART: C:/Users/TASNEEM/AppData/Local/Programs/Python/Python39/python code 64.py =====
3
0 2017
-2017 -2017
2017 0
4510.14911062
>>> |
```

The window has a menu bar with "File", "Edit", "Shell", "Debug", "Options", "Window", and "Help". The status bar at the bottom right shows "Ln 21 Col 4". The Windows taskbar is visible at the bottom of the screen.

THANK YOU