TEAM 77 FIRETRUCK

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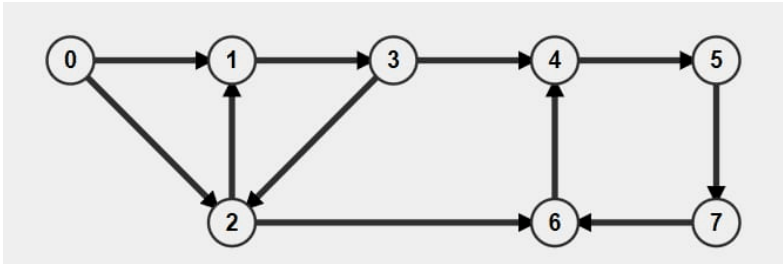
Introduction

- There is a fireplace and the fire station department need to reach the fireplace.

Approach

- 

- Note down the vertices
- Print all the possible paths from the starting point to the destination
- Create a graph for the given input

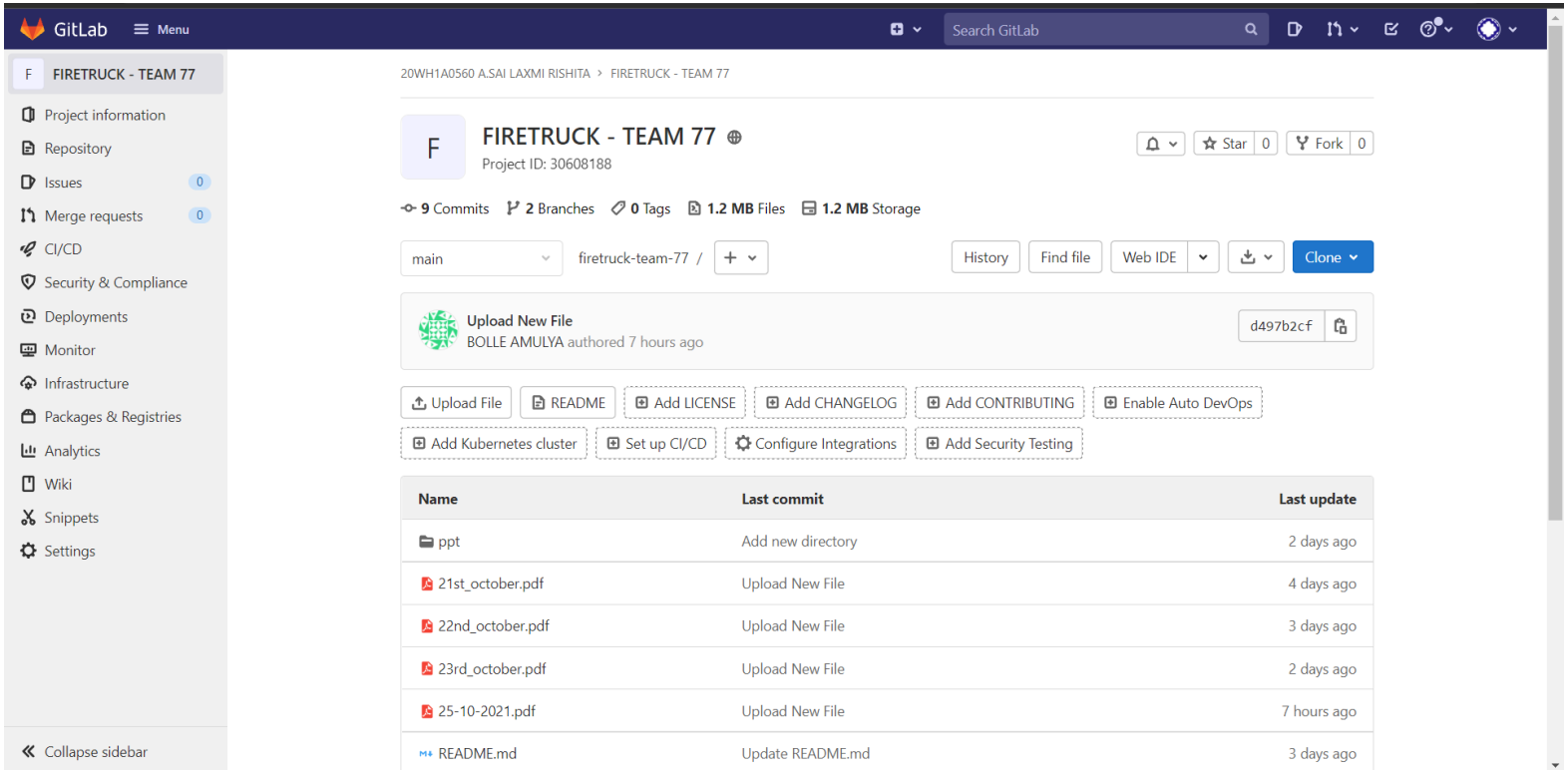
Learnings

- 1. LaTeX
- 2. Gitlab
- 3. Team work
- 4. Self Learning

Challenges

- Making our code generalized

GIT Repo


GitLab
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20WH1A0560 A.SAI LAXMI RISHITA › FIRETRUCK - TEAM 77
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ppt
Add new directory
2 days ago
21st_october.pdf
Upload New File
4 days ago
22nd_october.pdf
Upload New File
3 days ago
23rd_october.pdf
Upload New File
2 days ago
25-10-2021.pdf
Upload New File
7 hours ago
README.md
Update README.md
3 days ago

Tech stack

- OS :Windows 10, Pycharm
- Language : Python
- LaTeX, Gitlab

Code

```python
#case 1 ie when street number 6 is nearest street to the fireplace
print("CASE 1:")
from collections import defaultdict
class Graph:
    def __init__(self,vertices):
        self.V= vertices
        self.graph = defaultdict(list)
    def addvertices(self,u,v):
        self.graph[u].append(v)
    def printAllPathsUtil(self, u, d, visited, path): #marking the current vertex as visited
        visited[u]= True
        path.append(u)
        if u==d:
            print(path)
        else:
            for i in self.graph[u]: #to remove the current vertex from the path amd we mark it as unvisite
                if visited[i]==False:
                    self.printAllPathsUtil(i, d, visited, path)
        path.pop()
        visited[u]= False
    def printAllPaths(self,s, d): # s is the start point and d is the destination point
        visited =[False]*(self.V)
        path = []
        self.printAllPathsUtil(s, d,visited, path) #to print all the paths
#creating a graph
g = Graph(8) #total 8 paths are given in the input
g.addvertices(1,2)
g.addvertices(1,3)
g.addvertices(3,4)
g.addvertices(3,5)
g.addvertices(4,6)
g.addvertices(5,6)
g.addvertices(2,3)
g.addvertices(3,4)
g.addvertices(0,0)
s = 1 ; d = 6
print ("These are the routes possible from the firestation to the streetcorner 6:")
g.printAllPaths(s, d)
```

Demo/ Screen Shots

- ```
  CASE 1:
  These are the routes possible from the firestation to the streetcorner
  [1, 2, 3, 4, 6]
  [1, 2, 3, 5, 6]
  [1, 2, 3, 4, 6]
  [1, 3, 4, 6]
  [1, 3, 5, 6]
  [1, 3, 4, 6]
  ```
  ```

THANK YOU!!