
System Requirements Specification Index

For

Pyspark Usecase

Football player analysis L1

1.0

Step to access the work environment

Step 1 use the URL to login provide the username and password

one.techademy.com/assessment-v1/IIHTINTERNAL/test-taker/pre-assessment/YWExYzJkOTIhMTdhMC00NTkwLWlxYWUwM2MxMDA4Njc4NTMzZDc5NTZjNDhILWVOTktNGRhOC05OGEx...

PySpark-Football Analysis-L1-Template-Reborn Test

Link Validity Start Date and Time
18/08/2025. 06:50 PM

Cut off Date and Time
18/08/2026. 03:55 PM

180 Min

2 Attempts

1 Skills

Sections 1 | Total Questions 1

Project : 1 Questions

70% Cut off

System Requirement

Javascript should be enabled in the browser

Recommended Browser

First Name *

Last Name

Email *

Phone (Optional)

☐ I am not a robot *

START

Step 2 you can see the launch Environment

one.techademy.com/assessment-v1/IIHTINTERNAL/test-taker/test/YWZkY2RlZTAhMjBkZi00Yjk5LTk3MzUwM2E2MTBjYjIwODkwfGYwMGQzNDRLITNhYjMhNDI5Yy04MzJlTlRlMTFhZG...

PySpark-Football Analysis-L1-Solution-Reborn Test

Submit Assessment

Project 1

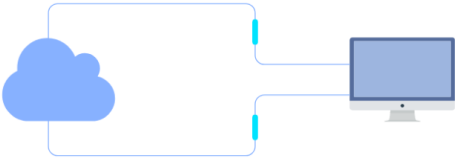
Code to clone : 986606-226023

vignesh s
vigtest12@gmail.com
Speed Test: >= 10Mbps Live: 75.01 Mbps

1 Question Type: Project Based Question

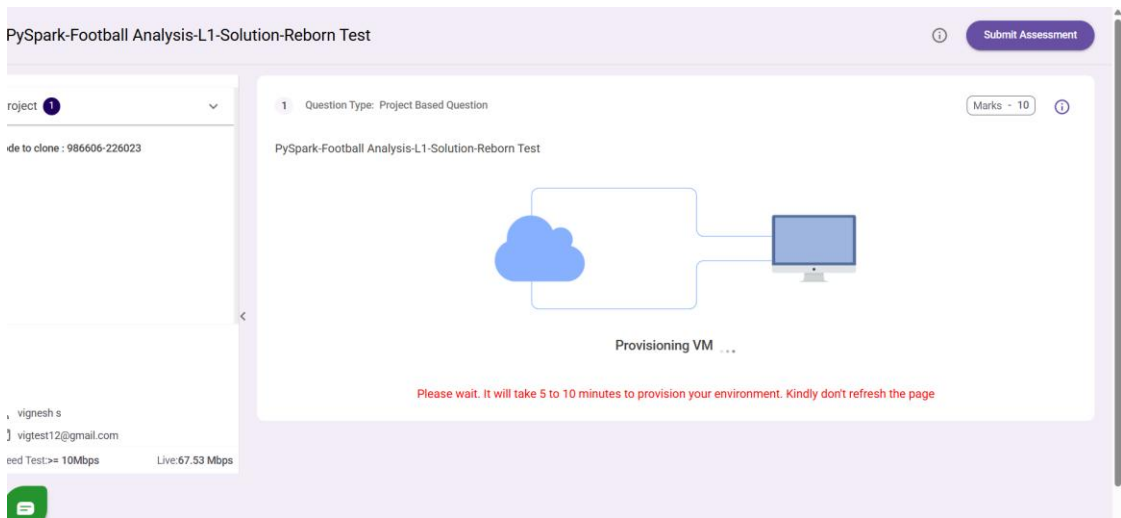
Marks - 10

PySpark-Football Analysis-L1-Solution-Reborn Test

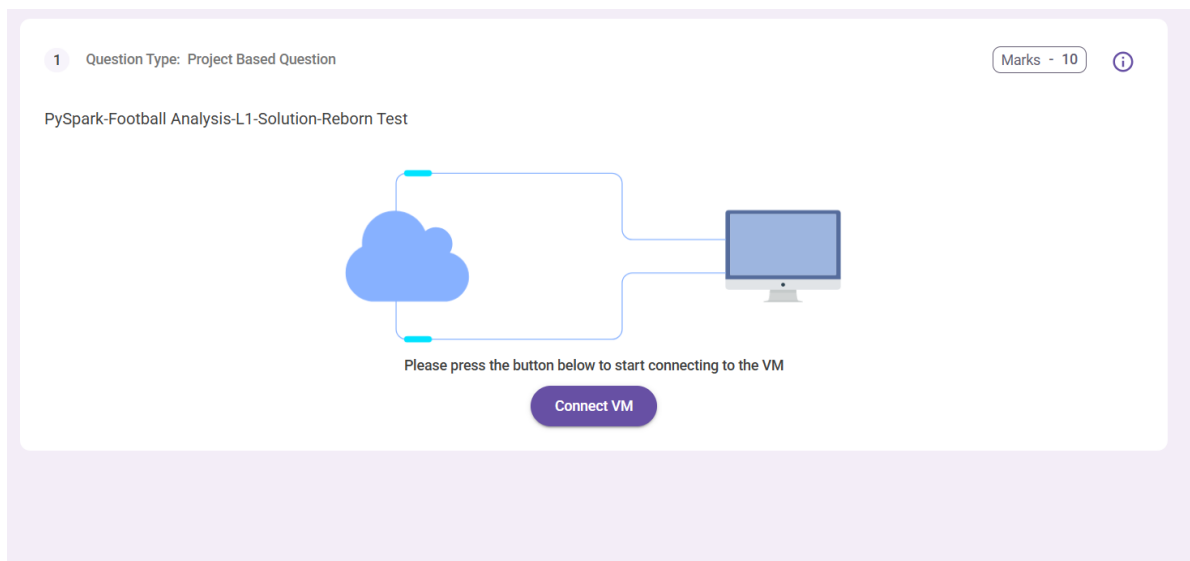


Provisioning VM ...

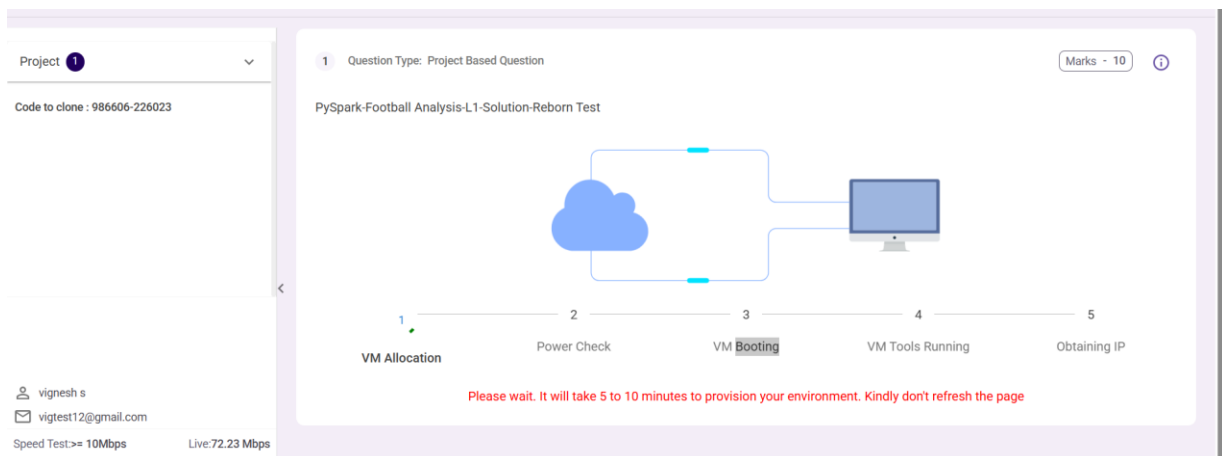
Please wait. It will take 5 to 10 minutes to provision your environment. Kindly don't refresh the page



Step 3 Click on the connect vm button

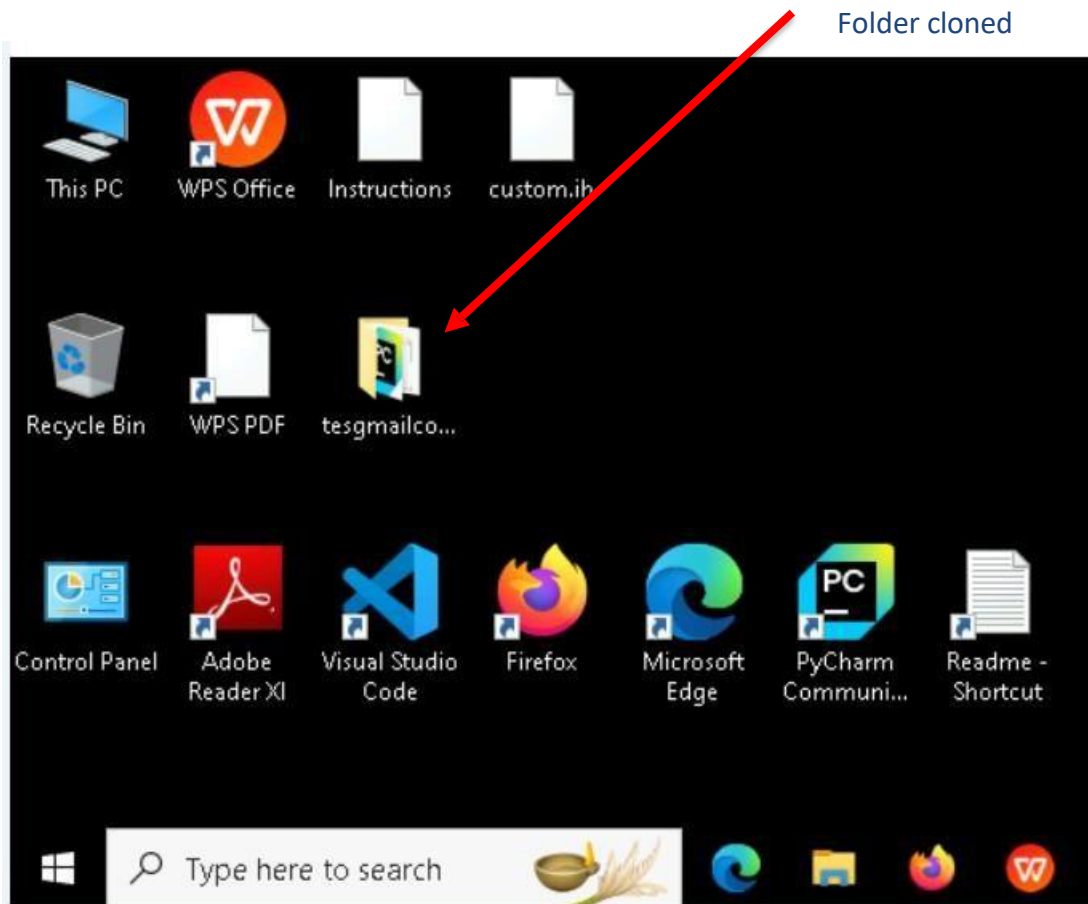


Step 4 you will get a window you need to type the code from that left conner

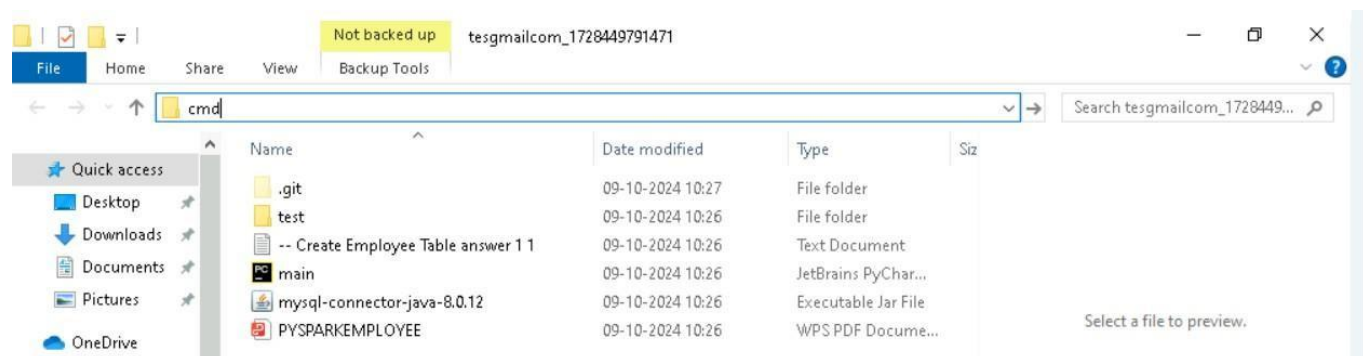


Click on ok

Step 5 after few seconds we can see that the your folder is cloned in the desktop .

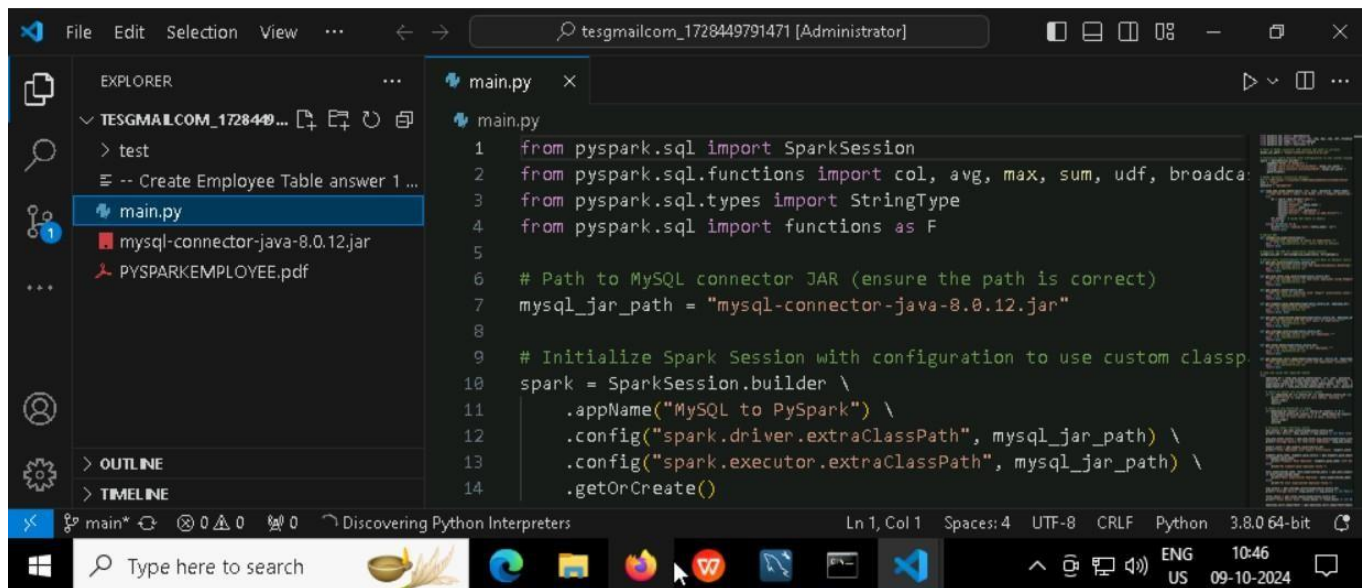


Step 6 go inside the folder type cmd in the top of the file explorer



- Type **code**. And hit enter you can see that workspace is opened in the visual code





- You can see that workspace is ready to code

Note Please only work with visual code not with any other IDE

- In the folder cloned you will have all the project files needed .

Problem Statement : Football analysis with pyspark

Description : Use relevant methods operations to perform specified activities which are given in the instructions.

PYSPARK TASK -L1

The "Football Player Performance Analysis" use case involves football analysts using a PySpark-based program to extract key insights from a dataset of football players. Analysts load the dataset, which contains player statistics such as goals scored, assists, and matches played, into a Spark DataFrame. The program processes the data to identify top performers in several categories, including the top goal scorer, the player with the most assists, and the player with the best goal-to-match ratio. It also calculates the total number of goals and assists across all players, identifies the team with the most goals, and finds the players who have played the least and most matches. These insights are used by football clubs for tactical decisions, media outlets for reporting, and analysts for scouting. The results are compiled into reports, helping stakeholders make data-driven decisions on team strategies, player transfers, and performance evaluations.

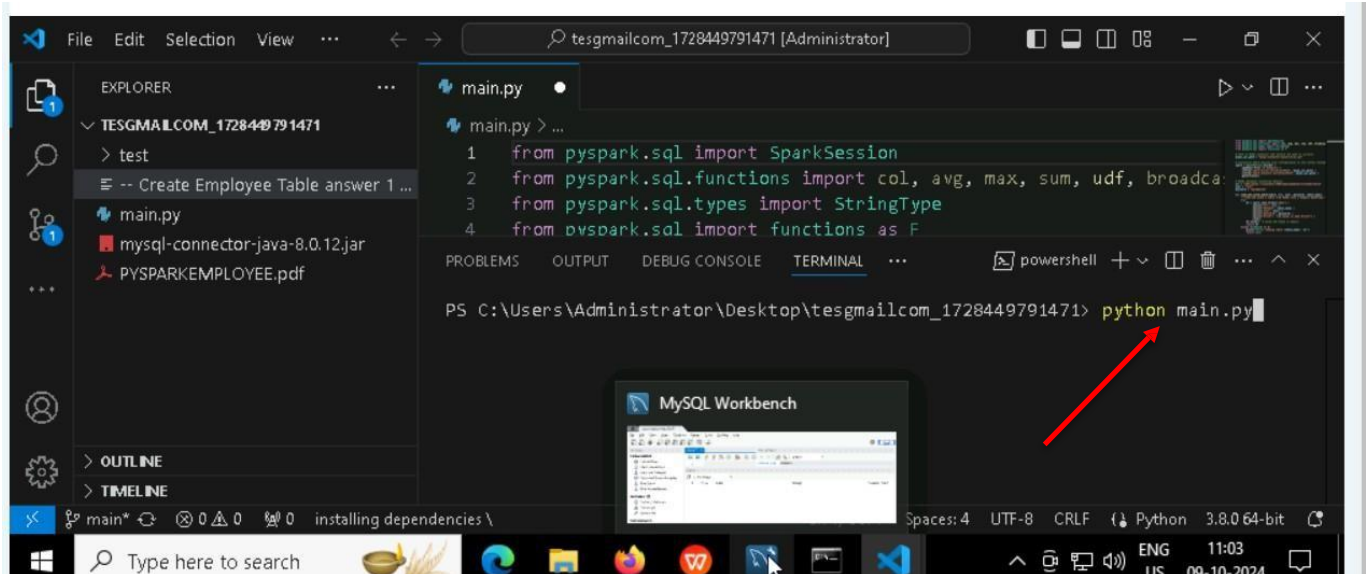
Solve these Questions

- What is the name of the player who scored the most goals in the dataset?
- Which player provided the most assists in the dataset?
- Who has the highest goal-to-match ratio among the players?
- What is the total number of goals scored by all players in the dataset?
- What is the total number of assists provided by all players in the dataset?
- Which team scored the most goals in total based on the dataset?

Execution Steps to Follow:

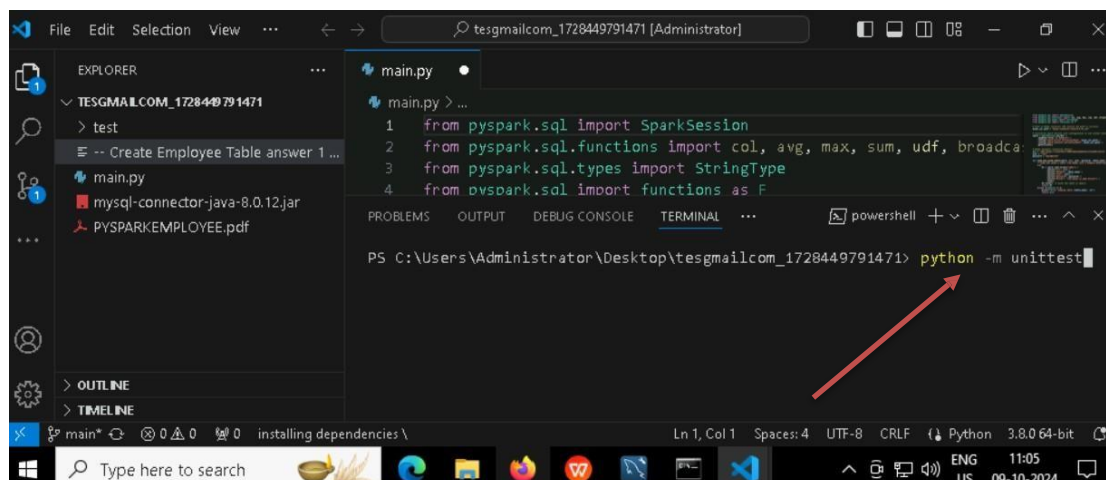
1. All actions like build, compile, running application, running test cases will be through Command Terminal.
2. To open the command terminal the test takers, need to go to Application menu (Three horizontal lines at left top) -> Terminal -> New Terminal
3. This editor Auto Saves the code
4. If you want to exit (logout) and continue the coding later anytime (using Save & Exit option on Assessment Landing Page) internal git/repository. Else the code will not be available in the next login.
5. These are time bound assessments the timer would stop if you logout and while logging in back using the same credentials the timer would resume from the sametime it was stopped from the previous logout.
6. To setup environment:
You can run the application without importing any packages
7. To launch application:
 Python football.py
8. To run Test cases:
python -m unittest

Screen shot to run the program



To run the application

- Python football.py



To run the testcase

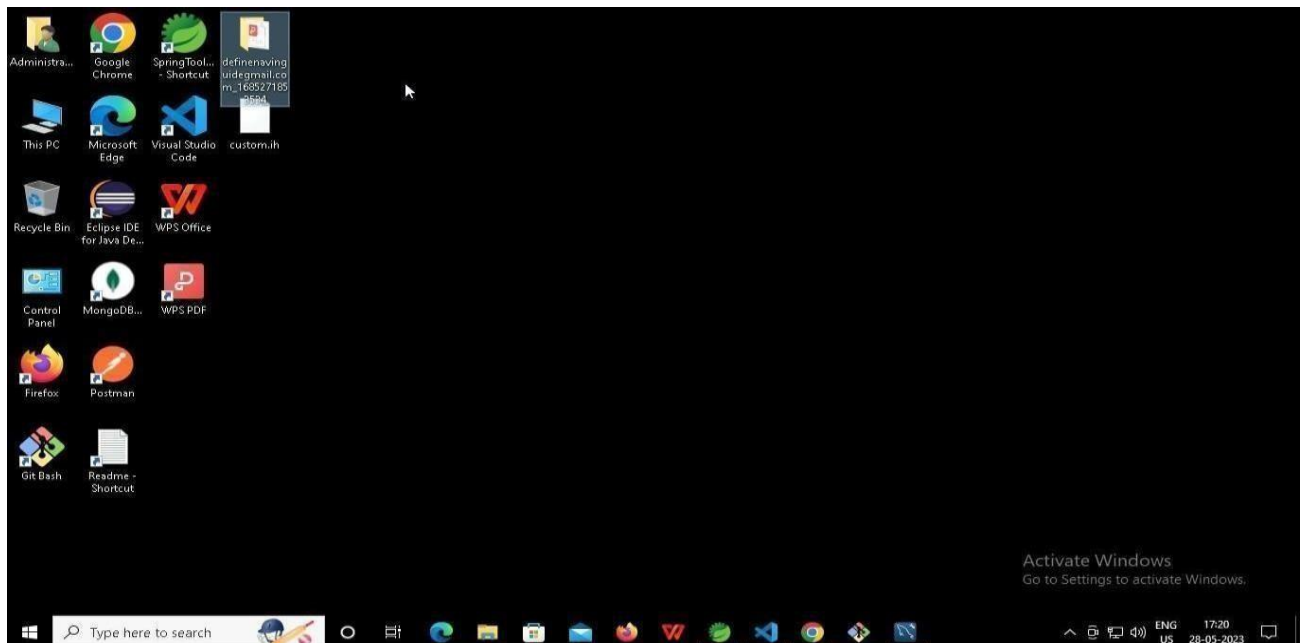
- Python -m unittest

Screenshot to push the application to github

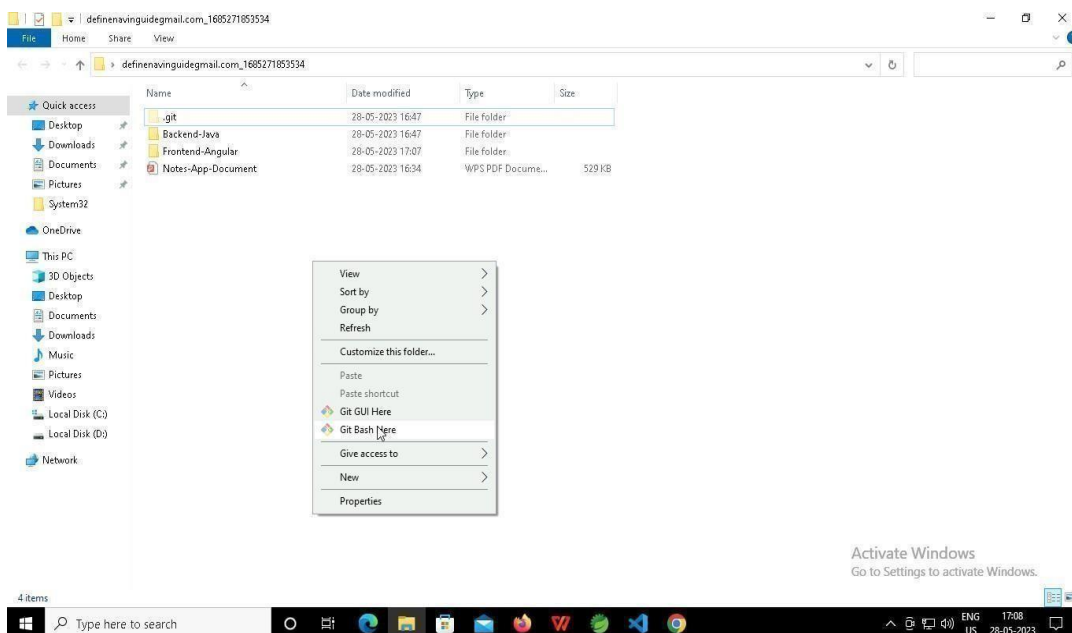
-----X-----

You can run test cases as many numbers of times and at any stage of Development, to check howmany test cases are passed/failed and accordingly refactor your code.

1. Make sure before final submission you commit all changes to git. For that open theproject folder available on desktop



a. Right click in folder and open Git Bash



b. In Git bash terminal, run following commands

c. git status


```
Administrator@2a5ee7ad258f58c MINGW64 ~/Desktop/tesgmailcom_1728449791471 (main)
$ git status
On branch main
Your branch is up to date with 'origin/main'.

Changes not staged for commit:
  (use "git add/rm <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
        deleted:    templateespark.py

no changes added to commit (use "git add" and/or "git commit -a")
Administrator@2a5ee7ad258f58c MINGW64 ~/Desktop/tesgmailcom_1728449791471 (main)
$
```

d. `git add .`

```
Administrator@2a5ee7ad258f58c MINGW64 ~/Desktop/tesgmailcom_1728449791471 (main)
$ git add .
```

e. `git commit -m "First commit"`
(You can provide any message every time you commit)

```
Administrator@2a5ee7ad258f58c MINGW64 ~/Desktop/tesgmailcom_1728449791471 (main)
$ git commit -m "first commit"
[main f97ce24] first commit
1 file changed, 91 deletions(-)
delete mode 100644 templateespark.py
```

f. `git push`

```
Administrator@2a5ee7ad258f58c MINGW64 ~/Desktop/tesgmailcom_1728449791471 (main)
$ git push
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Delta compression using up to 4 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (2/2), 212 bytes | 212.00 KiB/s, done.
Total 2 (delta 1), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To https://github.com/IIHTDevelopers/tesgmailcom_1728449791471.git
   alc1905..f97ce24  main -> main
```

After you have pushed your code Finally click on the final submission button

one.techademy.com/assessment-v1/llHTINTERNAL/test-taker/test/YWZkY2RlZTAiMjBkZi00YjK5LTk3MzU1M2E2MTBjYjwODkwIGYwMGQzNDRLTNhYjMiNDI5Yy04MzJlLTBkMjU1MTFIZGJl... Incognito

PySpark-Football Analysis-L1-Solution-Reborn Test

Time Remaining: 02:59:04 [Submit Assessment](#)

Project 1

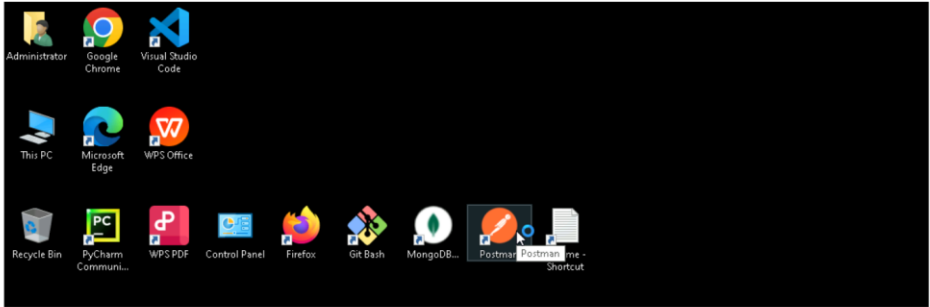
Code to clone : 986606-226023

vignesh s
vigtest12@gmail.com
Speed Test: 10Mbps Live: 108.29 Mbps

1 Question Type: Project Based Question Marks - 10

PySpark-Football Analysis-L1-Solution-Reborn Test

[Switch To Full Screen](#) [Refresh VM](#)



Administrator, Google Chrome, Visual Studio Code, This PC, Microsoft Edge, WPS Office, Recycle Bin, PyCharm Community Edition, WPS PDF, Control Panel, Firefox, Git Bash, MongoDB, Postman, Postman - Shortcut

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You should see a screen like this you will have to wait for the results . after getting this page you can leave the system

-----X-----