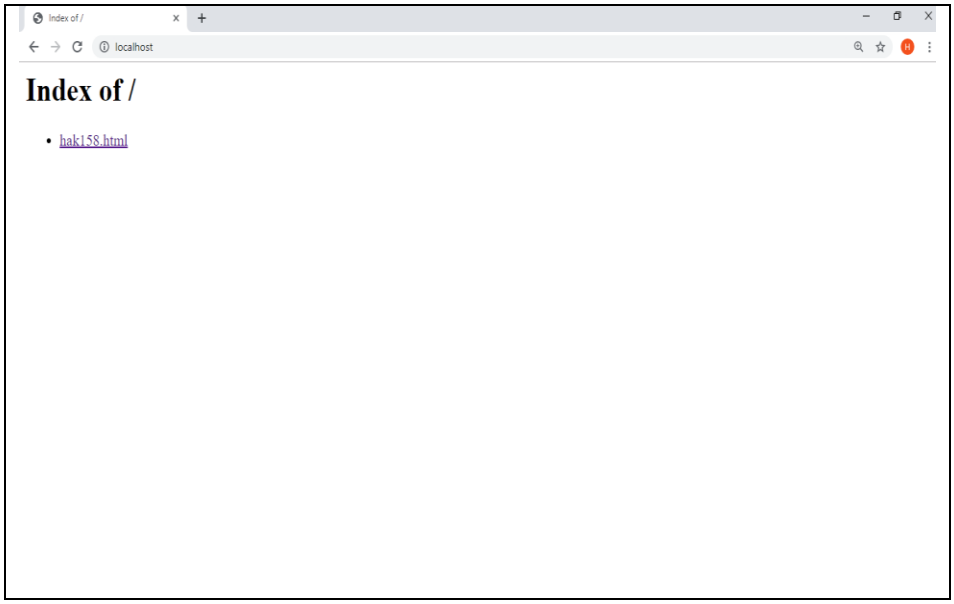
How to Run the Web Application on Localhsot

- Download Apache, MySql and Python onto your PC, accepting the default settings. The default user name is 'root', host is 'localhost', port number is 3306. Create the mentioned database with name 'SupplyDB' with MySql with the exact schema and data given in the specification.
- A account with user name 'proj' and password 'proj' has been created for the purpose of this project.
- From the files provided, open all the Python files (query1.py, query2.py etc.) and check if the path in the first line matches with the path where python is installed and change it if it's different from the user computer.
- Install MySQL driver from python. Open up python command and type

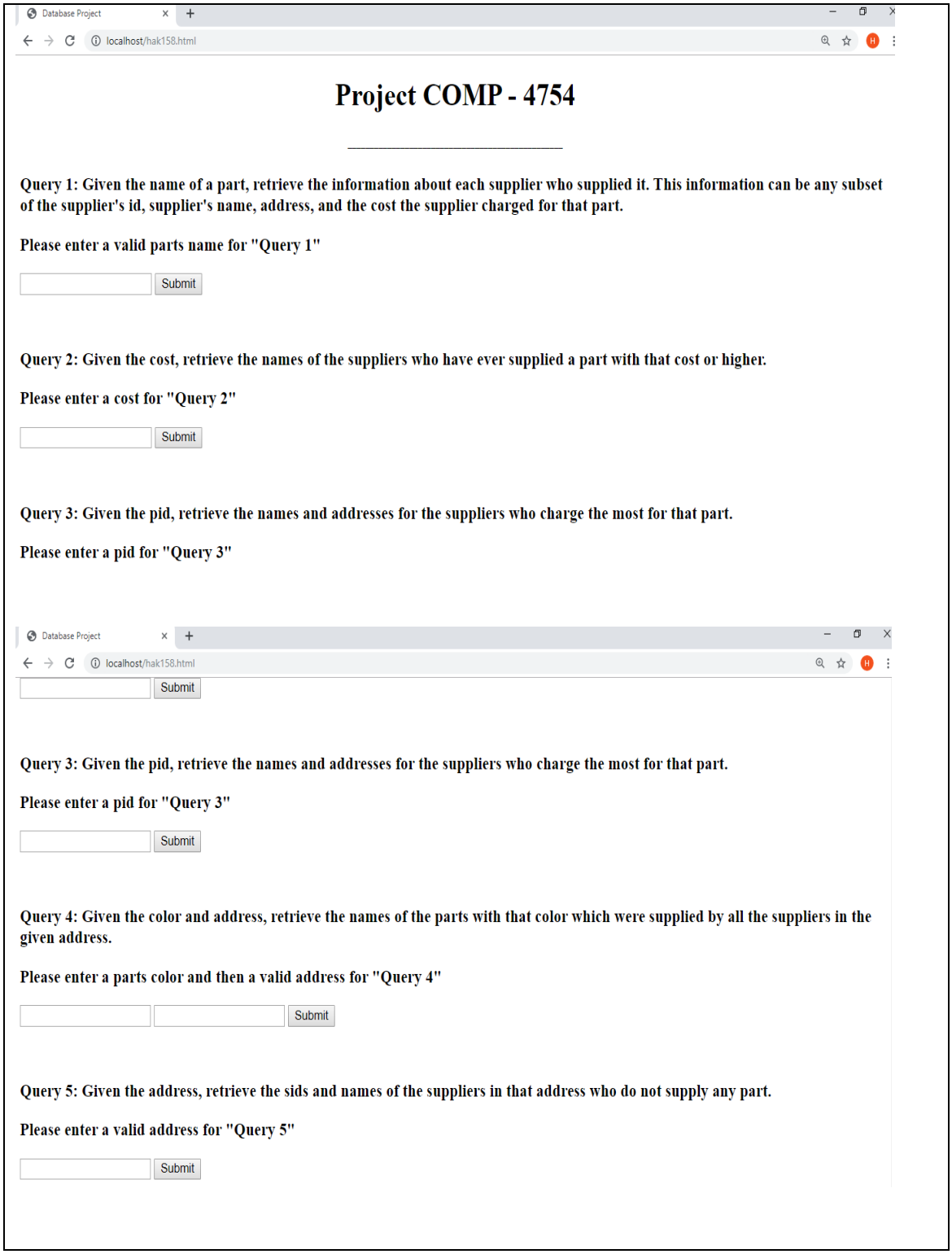
  python -m pip install mysql-connector
- Now, copy and paste the hak158.html file in the 'htdocs' subdirectory within the Apache directory tree.
- And copy and paste all 5 python files (named query1.py, .. , query5.py) in the 'cgi-bin' sub-directory tree within the Apache directory tree.
- Make sure apache server is running. Go to the 'bin' sub-directory in the 'Apache' directory, and click 'ApacheMonitor'. Then click 'start' to start apache server if not already done.
- Also, make sure MySQL server is running. Search 'services' in windows run and open it. Under 'Services' locate MYSQL80 (version may be different) and make sure it is running. If not running, right click on it and hit start.
- Now, go to a web browser and write "http://localhost", and it will show the hak158.html link. Click 'hak158.html' to get access to the database queries.

Screenshots of the Project Run

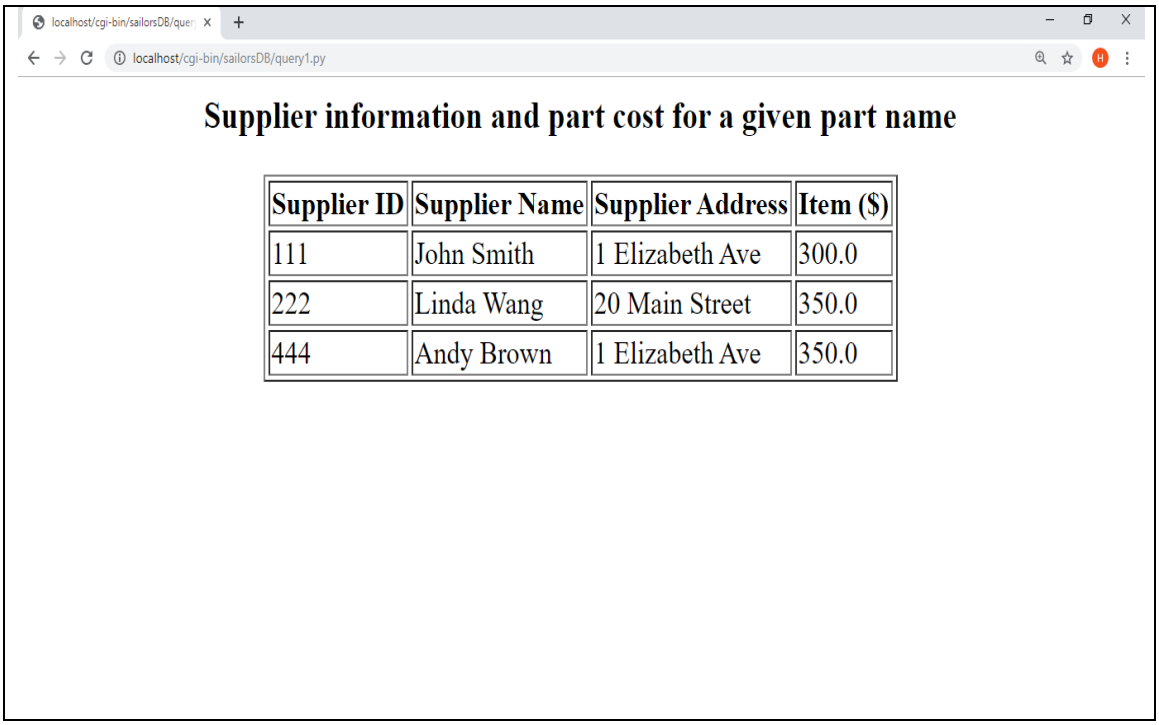
1. When typed http://localhost on the web browser, it will show hak158.html link.



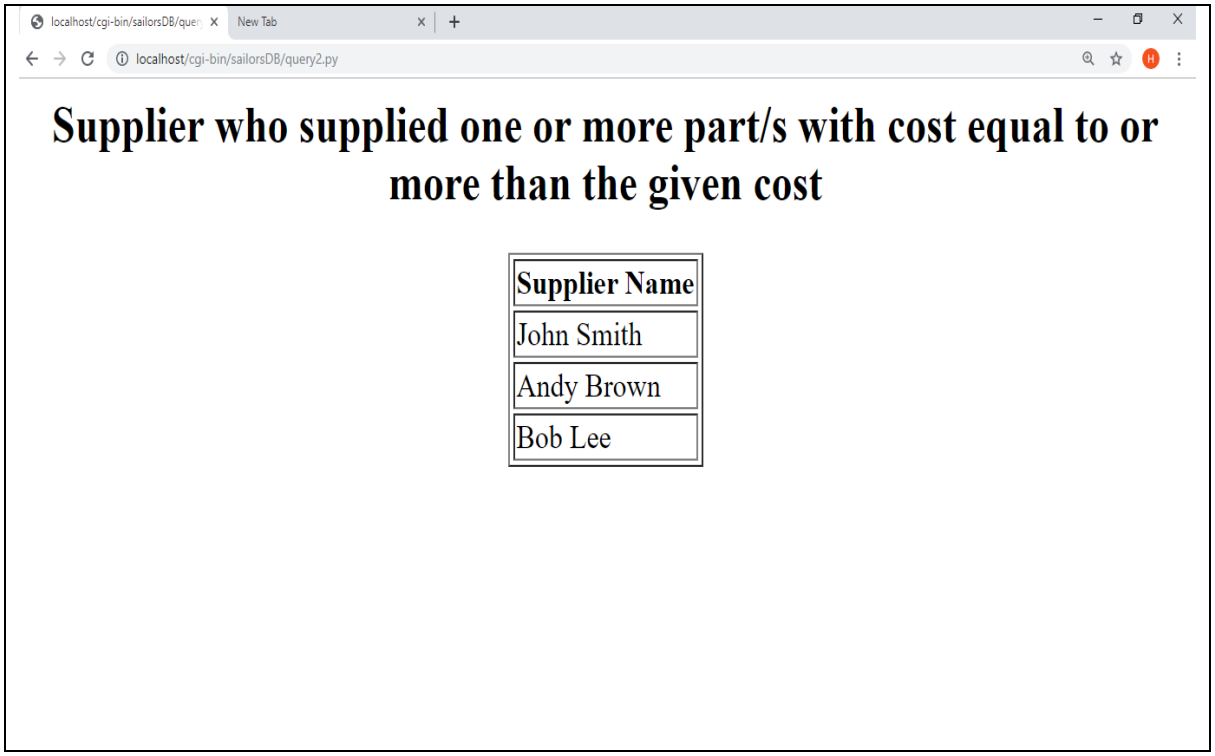
2. When hak158.html is clicked the page with all the queries will show up



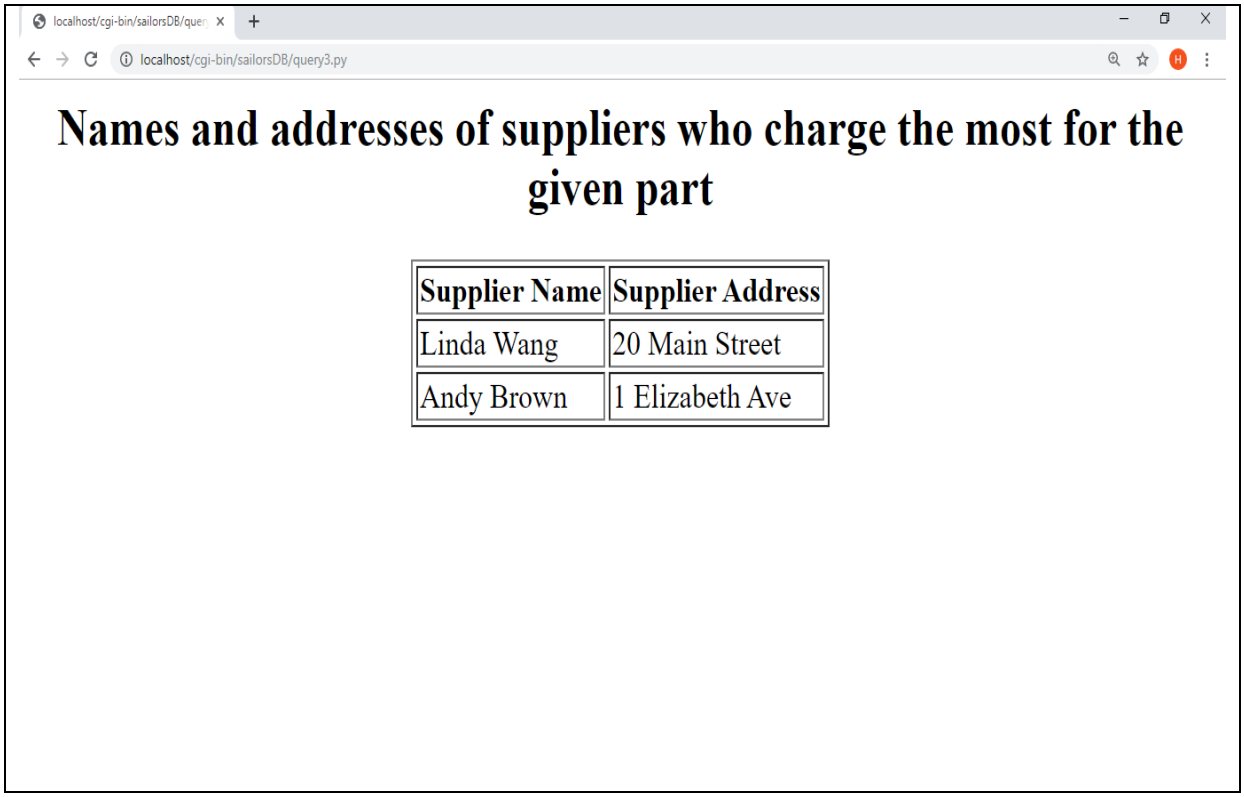
3. For the first query at http://localhost/hak158.html, please input a valid part's name. This screenshot is taken after putting "Mother Board" as the parts name and then hitting submit. It will then show the supplier ID, supplier name, supplier address, and cost of the part supplied by the particular supplier.



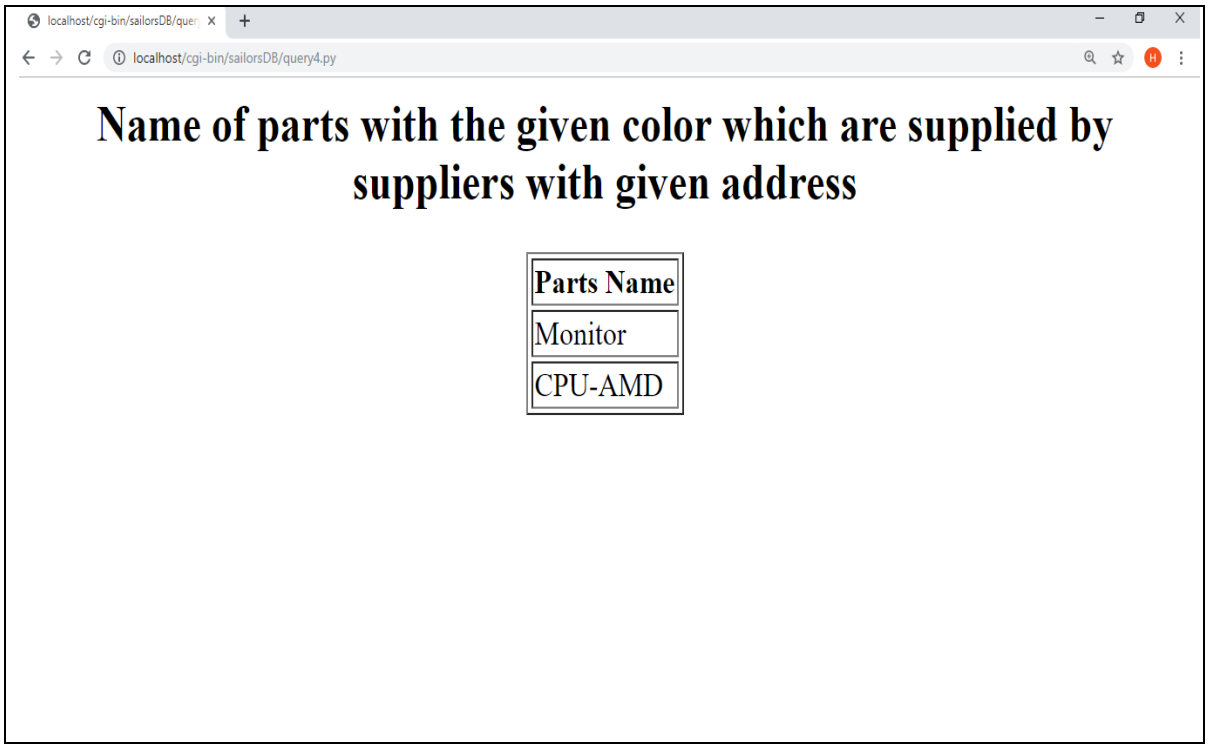
4. For the second query at http://localhost/hak158.html, please input a cost. This screenshot is taken after putting “360” as the cost and then hitting submit. It will then show the supplier names who supplied one or more part/s with cost equal to or more than the given cost



5. For the third query at http://localhost/hak158.html, please input a valid pid. This screenshot is taken after putting “P1” as the pid and then hitting ‘submit’ button——. It will then show the names and addresses of suppliers who charge the most for the given part.



6. For the fourth query at http://localhost/hak158.html, please input a part's color and a valid address. This screenshot is taken after putting "white" as the color and "1 Elizabeth Ave" as the address and then hitting submit. It will then show the name of parts with the given color which are supplied by suppliers with given address



7. For the fifth query on http://localhost/hak158.html, please input a valid address. This screenshot is taken after putting “10 Governor Road” as the address and then hitting submit. It will then show the IDs and names of Suppliers who do not supply any part in the given address.