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CS453-001  
HW2

- 1) Perceval is a very vital tool to collect data of a repository. We employed Perceval to collect the data with regards to issues closed and opened in a repository. We are able to gain data with regards to issues closed, opened, with or without assignees, date opened and closed, and users contributing to the issues. It is very crucial to understand the development of an open-source project with regards to issues closed and opened. It allows the developers to understand if there are any existing issues, and what has been the history of issues/pull requests. It also allows us to view who contributed the most to issue solving, along with the age of the repository and much more. It is much convenient to use Perceval than APIs as it allows us to employ multiple API functionalities in one package.

- 2) Azure/MachineLearningNotebooks  
(<https://github.com/Azure/MachineLearningNotebooks/issues>)

**Today's date is 2022-04-01 13:52:31.149329+00:00**

**-----PART 2-----**

**First Opened Issue Date:**

**2018-09-13 18:22:30+00:00**

**Last Opened Issue Date:**

**2022-03-30 22:55:25+00:00**

**Age of repository in days: 1294**

**-----PART 3-----**

**the number of closed issues:**

**1027**

**the number of open issues:**

**230**

**-----PART 4-----**

**Top 5 users:**

**[('dataders', 69), ('jadhoshn', 20), ('omartin2010', 18), ('BillmanH', 18), ('CESARDELATORRE', 18)]**

**-----PART 5-----**

**Number of closed issues with at least no assignee:**

**606**

**Average number of days to close issues with at least no assignee:**

**86**

**-----PART 6-----**

**Number of closed issues with at least one assignee:**

**421**

**Average number of days to close issues with at least one assignee:**

**83**

- 7) No, as the average number of days to resolve those issues is very similar. I tried on multiple repositories and received same results. Having an assignee doesn't matter unless the assignee is serious to solve the issue. Thus, it is rather subjective when it comes to resolving issues.