ITP-116: Python for Programmers

Anonymous Reporting at USC

- Proposal - 2.0% of course grade

- Implementation – 18.0% of course grade

Goals

- Output Information

- Utilize arithmetic operators

- Utilize various dictionary & list techniques

- Utilize File I/O to read/write files

- Utilize loops to repeat certain code blocks

- Utilize functions for code organization and efficiency

- Produce Graphs in Python

- Utilize Python Tkinter GUIs

- Implement and utilize an SQL Database or SQLite API Database

- Utilize Python to Google Search

Overall Description

- College campuses are known to be centers for debate, knowledge development, and character growth. Unfortunately, many harmful incidents infiltrate these spaces. The difficulties arise from the fear to report such incidents, lack of knowledge of appropriate reporting and resources services, and unreported data.

- This program will track and document these types of incidents on the University of Southern California campus and provide ready-access information on resources for victims of harmful incidents on and around the university campus.

Requirements

- The program will begin by prompting the user with a menu of services provided.

    - If the user chooses to file an anonymous report:

        - Prompt them for the type of report, position of individuals involved, description, location, approximate date and time, and location

        - Save this information to the database

        - Add a marker (color-coded by type of report) to the location selected

    - If the user chooses to create a fileable report:

        - Prompt the user to specify the incident as on or off the university campus

            - If on campus:

                - Prompt the user for the type of report

                - Create a writable file for the type of report based on university guidelines

                - Save the file

                - Send the report to the appropriate address

            - If off-campus:

                - Prompt the user for the type of report

                - Provide the user with appropriate university resources pertaining to the type of report

                - Provide user with appropriate non-university resources pertaining to the type of report

    - If the user chooses to view resources available:

        - Prompt the user for a selection on what type of resource

        - Provide user with appropriate resources

    - If the user chooses to view campus statistics:

        - Prompt user for the category of reports and location

            - Offer a selection that allows the user to view ALL categories

        - Provide a chart of the data for the category selected

- – If the user selects to view the map of reports

  - • Prompt the user for the category of reports

    - – Offer a selection that allows the user to view ALL categories

  - • Display the visual map of reports

- – If the user selects to exit, exit the program

- • All inputs are case insensitive.

- • You must implement no fewer than 8 functions, not including the main function.

- • In your main function, there can only be function calls and possibly loops.

Sample Output

```
Welcome to Nemesis Anonymous Reporting!

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Nemesis Services

    1. Make an Anonymous Report
    2. Submit a Fileable Report
    3. Find Resources
    4. View Campus Statistics
    5. View a Map of Campus Reports
    6. Exit

What can we do for you? 1

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Nemesis Anonymous Report Service

Type of Report:

    1. Discrimination
    2. Harassment
    3. Microaggression
    4. Assault
    5. Graffiti, Poster, or other tangible display
    6. Return to Services Menu

What type of report will you be submitting? 2

---

Type of Harassment:

    1. Ableist
```

        2. Anti-LGBT+
        3. Racial
        4. Religious
        5. Sexual

What kind of harassment are you reporting? 5

Individuals Involved:

        1. Students
        2. Staff
        3. Faculty
        4. Coach/Coaching Staff
        5. Campus Guests
        6. Non-university affiliates

Please select the best description of the individuals involved: 1

There were students involved.

Do you want to select an additional type of individual involved (Y/N)? Y

Individuals Involved:

        1. Students
        2. Staff
        3. Faculty
        4. Coach/Coaching Staff
        5. Campus Guests
        6. Non-university affiliates

Please select the best description of the individuals involved: 1

Oops! You already selected that one.

Do you want to select an additional type of individual involved (Y/N)? Y

Individuals Involved:

        1. Students
        2. Staff
        3. Faculty
        4. Coach/Coaching Staff
        5. Campus Guests
        6. Non-university affiliates

Please select the best description of the individuals involved: 5

There were students and campus guests involved.

Do you want to select an additional type of individual involved (Y/N)? N

Did this incident occur on or off the university campus (on/off)? On

Please provide the closest on-campus location.

Location: TCC

The incident occurred at or around the Tutor Campus Center.

Is this the correct location (Y/N)? N

Did this incident occur on or off the university campus (on/off)? On

Please provide the closest on-campus location.

Location: Troy

The incident occurred at or around Troy Hall.

Is this the correct location (Y/N)? Y

Please provide a brief description of the Sexual Harassment incident:

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.

Do you want to submit this report (Y/N)? y

Your submission has been saved and recorded in the Nemesis Anonymous Reporting Database!

Would you like to view available resources (Y/N)? n

Nemesis Services

    1. Make an Anonymous Report
    2. Submit a Fileable Report
    3. Find Resources
    4. View Campus Statistics
    5. View a Map of Campus Reports
    6. Exit

```
What can we do for you? 2

-------

Nemesis Fileable Report Service

Type of Report:

    1. Discrimination
    2. Harassment
    3. Microaggression
    4. Assault
    5. Graffiti, Poster, or other tangible display
    6. Return to Services Menu

What type of report will you be submitting? 2

---

Type of Harassment:

    1. Ableist
    2. Anti-LGBT+
    3. Racial
    4. Religious
    5. Sexual

What kind of harassment are you reporting? 5

---

Individuals Involved:

    1. Students
    2. Staff
    3. Faculty
    4. Coach/Coaching Staff
    5. Campus Guests
    6. Non-university affiliates

Please select the best description of the individuals involved: 1

There were students involved.

Do you want to select an additional type of individual involved (Y/N)? N

---

Did this incident occur on or off the university campus (on/off)? On

Please provide the closest on-campus location.

Location: Parkside
```

The incident occurred at or around the Parkside Apartments.

Is this the correct location (Y/N)? Y

Please provide a brief description of the Sexual Harassment incident:

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.

Do you want to submit this report (Y/N)? y

Your submission has been saved and recorded in the Nemesis Anonymous Reporting Database!

Do you want to view the txt file of your report (Y/N)? n

Would you like to view available resources (Y/N)? n

Nemesis Services

    1. Make an Anonymous Report
    2. Submit a Fileable Report
    3. Find Resources
    4. View Campus Statistics
    5. View a Map of Campus Reports
    6. Exit

What can we do for you? 3

Nemesis Resources

    1. University Reporting Systems
    2. University Health Services
    3. University Hotlines
    4. University Clubs
    5. Local Hotlines

```
    6. National Hotlines
    7. Return to Services Menu
```

What kind of resources are you looking for? 6

Here are our National Hotline resources:

National Mental Health Hotline – (866) 903-3787

National Domestic Violence Hotline – 1 (800) 799-7233

National Teen Dating Abuse Hotline – 1 (866) 331-9474

StrongHearts Native Helpline – 1 (844) 762-8483

Gay, Lesbian, Bisexual and Transgender National Hotline – 1 (888) 843-4564

RAINN National Sexual Assault Hotline – 1 (800) 656-4673

DOD Safe Helpline for Sexual Assault – 1 (877) 995-5247

National Human Trafficking Hotline – 1 (888) 373-7888

National Suicide Prevention Lifeline – 1 (800) 273-8255

(tbc)

Nemesis Services

```
    1. Make an Anonymous Report
    2. Submit a Fileable Report
    3. Find Resources
    4. View Campus Statistics
    5. View a Map of Campus Reports
    6. Exit
```

What can we do for you? 4

Nemesis Anonymous Reporting Statistics

```
    1. Discrimination
    2. Harassment
    3. Microaggression
    4. Assault
    5. Graffiti, Poster, or other tangible display
    6. Return to Services Menu
```
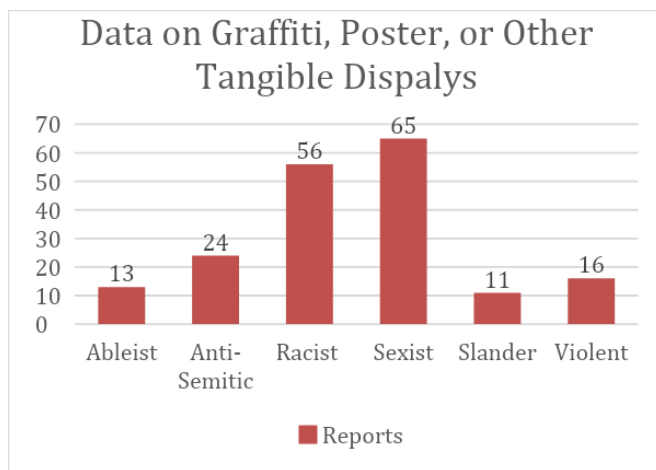
Which category would you like to view the statistics on? 8

Oops! That is not one of our options. Please select a number 1-6.

Nemesis Anonymous Reporting Statistics

1. Discrimination
2. Harassment
3. Microaggression
4. Assault
5. Graffiti, Poster, or other tangible display
6. Return to Services Menu

Which category would you like to view the data on? 5
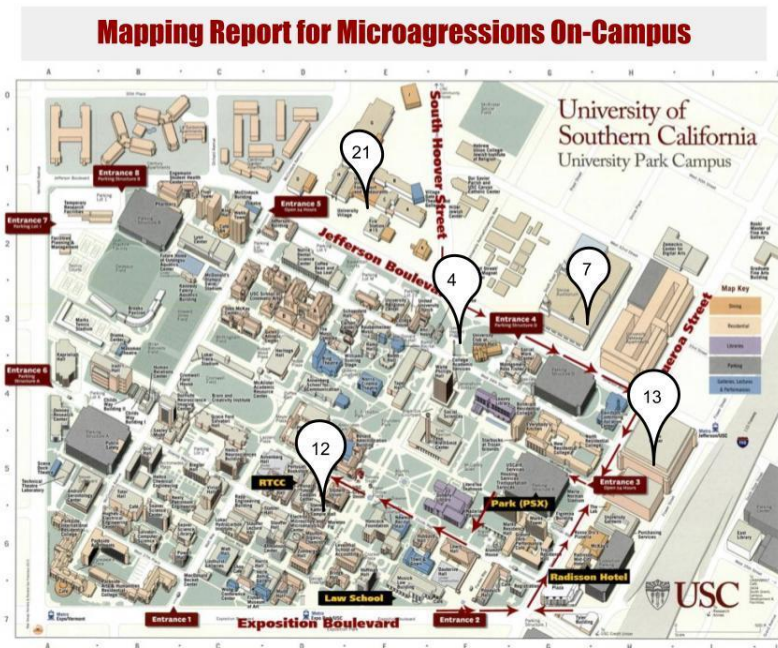

Nemesis Services

1. Make an Anonymous Report
2. Submit a Fileable Report
3. Find Resources
4. View Campus Statistics
5. View a Map of Campus Reports
6. Exit

What can we do for you? 5

Nemesis Anonymous Reporting Map of Campus Reports

1. Discrimination
2. Harassment
3. Microaggression
4. Assault
5. Graffiti, Poster, or other tangible display
6. Return to Services Menu

Which category would you like to view the data on? 3

Nemesis Services

    1. Make an Anonymous Report
    2. Submit a Fileable Report
    3. Find Resources
    4. View Campus Statistics
    5. View a Map of Campus Reports
    6. Exit

What can we do for you? 6

Thank you for contributing to Nemesis Anonymous Reporting!

We hope our services provided you with appropriate support.

Good-bye :)

Deliverables and Submission Instructions

- Create a folder on your computer called **ITP116_*FinalProject*_LastName_FirstName** (replace *LastName* with your last/family name and *FirstName* with your first name).

- Inside the folder, put your Python source code.

- Compress the folder (make a zip file). This cannot be done within PyCharm. Find the folder on your computer and compress it.

  - Windows:

    - Select your file

    - Right click

    - Send to ->

    - Compressed (zipped) folder

  - macOS:

    - Select your file

    - Right click

    - Compress

- Upload the zip file to your Blackboard section:

  - On Blackboard, click on the Assignments item in the course menu on the left.

  - Click on the specific item for this assignment.

  - Click on the Browse My Computer button and select your zip file.

  - Click the Submit button.

Grading Criteria

- 0.5% Displaying an error message if the user does not answer "y" or "n" (case insensitive)

- 0.5% Displaying an error message if the user re-enters the same answer in individuals involved

- 1% Adjusting input when user indicates that previous answer was incorrect

- 1% Correctly filtering statistics by category

- 0.5% Only allowing user to enter an appropriate value from the services menu

- 0.5% Only allowing user to enter an appropriate value from the resources menu

- 0.5% Only allowing user to enter an appropriate value from the file menu

- 0.5% Only allowing user to enter an appropriate value from the 'type' menus

- 0.5% Only allowing user to enter an appropriate category from statistics menu

- 0.5% Only allowing user to enter an appropriate category from mapping menu

- 1% Making the correct bar graph (correct labels and values)

- 0.5% Continuing to prompt the user with the main menu until they decide to exit

- 1 % Correctly creating a Python and MySQL database

- 1% Correctly implementing database functions

- 0.5% Successfully saving input from anonymous report to the database

- 0.5% Successfully writing a file for an off-campus report

- 0.5% Successfully writing a file for an on-campus report

- 1% Successfully deploying a GUI for mapping reports

- 0.5% Successfully providing the user with a text file of the fileable report

- 0.5% Correctly adding a marker to the GUI map of reports

- 1% Correctly filtering categories of reports for statistics

- 1% Correctly filtering categories of reports for maps

- 0.5% Successfully returning user to Service menu when indicted at a different menu

- 0.5% Successfully exiting the program when user indicates

- 0.5% Prompts user for appropriate information needed for selected USC fileable report

- 0.5% Delivers a txt file of the fileable report in the correct format
- 1% Correctly searches Google for the map location of an off-campus incident