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**Computer Science (3rd)**

**Data Structure #Assessment 1**

My Project is about the Project Management System bases on two classes. I use Multi-level inheritance in project. The classes are named as Project class in which there are three member variables of Protected because I use these variables further in programs. The variables are:

1. Project name (get the name of project)
2. Team name (get a name of Team who can handle the project)
3. Budget (how many rupees involved in this project)

And 2nd class is Person inherit form the project class. It has two-member variables.

1. person name (pointer variable that can store names in a array)
2. Size (how many people involved in the project)

This Project can use these things:

* Add Project
* View specific Project!
* update the specific record!
* Delete Project
* Display Project's
* Save data to Binary file
* Read data form File
* Export/Import form .csv file
* Help option
* Ostream function
* Getters / Setters
* Check conditions

1. My Program starts and it checks if binary file is already existed. It can open the file and read data from the binary file.
2. Create a person object of max array size of 10 and binary file name is given (person\_data.bin) and check if file already there it opens the file and read form the binary file.
3. When the program run form command prompt if the user gives the import of data form .csv file.
4. Now program run into a switch statement and perform (Add Project, view specific Project, update the specific record, Delete Project, Display Project’s, Save to Binary file and last exist form the switch statement.
5. Appy all the conditions that are required to perform action in the function.
6. After that if the user writes Export in command prompt according to conditions, then a new file of .csv is creating and store data into file. If file exist, then open the file and store the data.
7. If the user writes help in command prompt, then the help message will be shown to user.
8. Output will be displayed time by time according to conditions and program Ends.