**BANSILAL RAMNATH AGARWA CHARITABLE TRUST’S**

**VISHWAKARMA INSTITUTE OF INFORMATION TECHNOLOGY,PUNE**

**DEPARTMENT OF COMPUTER ENGINEERING**

**WORK BREAKDOWN STRUCTURE(WBS)**

GROUP ID:- S.Y.B.TECH

STUDENTS:-

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TOPIC:- STUDENT DATABASE

In our project we have made an array which helps to search ,insert and edit the details of the student based on his/her division, department and roll no. and gives fastest and the shortest way with sorted list of numbers. Thus traversal is efficient and also easy to code.

When we enter the roll no. ,department and division of student then we get the details of that student.

We are able to edit, search and insert the data of the students .

The roll nos. of the students are arranged in the sorted order which makes the traversal easy and time efficient.

Each part of the array contains Roll no.,Name,Father’s name,Cell no.,ID, Date of birth.

We are able to perform the following fuctions like:-

1. To get the data from the user
2. To show the data entered from the user
3. To search the data of the student
4. To add record of new student
5. To edit the record of the user

ADVANTAGES OF ARRAY

1. SAVES MEMORY-Memory can be stored dynamically in an array
2. CACHE FRIENDLY-Values are near each other in memory hence can be easily accessed from CPU to cache
3. PREDICTABLE TIMINGS-Access time is provided
4. EASIER DEBUGGING-Specified indexes hence optimal to use
5. MORE COMPACT IN MEMORY USAGE
6. HELPS IN REUSABILITY OF CODE
7. MULTI-DIMENSIONAL ARRAY

