Lab 10 – Group A and B

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Name | Roll No | GPA [8] | Address | | | Date of Birth | | |
| Ward No | Street Name | City | Day | Month | Year |
|  |  |  |  |  |  |  |  |  |

Questions

1. Create a structure for above table. Write a C Program to store data of 45 students in the structure. Also create a menu driven structure on console with following menu, and perform respective task as mentioned.
   1. Print Name and Address of students who have **Malepatan** as street name.
   2. Print Name and GPAs of students who scores average GPA of 3.2 or above.
   3. Print Name and Date of birth of students who were born before 2000.
2. Write a program to store a character string in a block of memory space created by malloc and then modify the same to store a larger string.

Write a C Program to create Nested Structure for the table shown below and store data of 45 students in the structure. Also create a menu driven structure on console with following menu, and perform respective task as mentioned.

**Structures in C**

Create a Structure in C using the table below

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Name | Roll No | GPA [8] | Address | | | Date of Birth | | |
| Ward No | Street Name | City | Day | Month | Year |
|  |  |  |  |  |  |  |  |  |

Note: GPA[8] is an array to store GPA of 8 different semesters of a student.

Write a C Program to store data of 45 students in the structure. Also create a menu driven structure on console with following menu, and perform respective task as mentioned.

1. Print Name and Address of students who have **Malepatan** as street name.
2. Print Name and GPAs of students who scores average GPA of 3.2 or above.
3. Print Name and Date of birth of students who were born before 2000.

*Instructor:*

*Luzan Baral*