ACADEMIC YEAR 2021-22

Class: F.Y. B. Tech. (Comp.) -B Semester: I Course: PSIP Course In charge: Nikahat Mulla
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List of Problems for practice-Set VI -Structures and Unions

1.Write a program to store and print the roll no., name , age and marks of a student using structures.

2. Write a program to store the roll no. (starting from 1), name and age of 5 students and then print the details of the student with roll no. 2.

3. Write a program to store and print the roll no., name, age, address and marks of 15 students using structure.

4. Write a program to add two distances in inch-feet using structure. The values of the distances is to be taken from the user.

5. Enter the marks of 5 students in Chemistry, Mathematics and Physics (each out of 100) using a structure named Marks having elements roll no., name, chem_marks, maths_marks and phy_marks and then display the percentage of each student.

6. Write a structure to store the roll no., name, age (between 11 to 14) and address of students (more than 10). Store the information of the students.
1 - Write a function to print the names of all the students having age 14.
2 - Write another function to print the names of all the students having even roll no.
3 - Write another function to display the details of the student whose roll no is given (i.e. roll no. entered by the user).

7. Write a program to compare two dates entered by user. Make a structure named Date to store the elements day, month and year to store the dates. If the dates are equal, display "Dates are equal" otherwise display "Dates are not equal".

8. Records for a set of employees include name, address, age, etc. but also information about whether they receive a weekly or monthly salary; the amount received per week or monthly salary; the amount received per week or per month is also present. Write a program which processes a set of these records and outputs
a.   The amount of the weekly wage bill
b.   The amount of the monthly wage bill excluding wages paid under (a) above
c.   The total yearly wage bill.
d.   The number of employees being paid by each means

9. Write a program which creates a structure representing a French/ English and an English/ French dictionary. There should be no duplication of words and efficient translation should be possible both ways. Your program must then return a French word corresponding to the given English word if it is found in the dictionary otherwise, must output a suitable message.

Note: Write user defined functions in all programs.