

Shri Swaminarayan College of Computer Science

SY BCA: Data Structure

Lab Assignment: 3

Topic: **STRUCTURE**

1. Define a structure that can be describing an hotel. It should have members that include the name m address, grade average room charge and number of rooms. Write functions to perform the following operations:-
 - To print out hotels of a given grade grade in order of charges.
 - To print out hotels with room charges less than a given value.
2. Define a structure data type named date containing three integer members day month and year. Develop an interactive modular program t perform the following tasks.
 - To read data into structure members by a function
 - To validate the date entered by another function
 - To print the date in format like April 29, 2002. By a third function.The input data should be integer like 29, 4, 2002 corresponding to day, month and Year. Examples of invalid data:-
 - 31.4.2002 April has only 30 days
 - 29.2.2002 is not leap year.
3. define a structure named survey with the following three members
 - A character array city [] to store names
 - A long integer to store population of the city.Write a program to do the following
 - To read details for 5 cities randomly using an array variable
 - To sort the list alphabetically
 - To display sorted list
4. define a structure called cricket that will describe the following information
Player name : - batting average
Using cricket declare an array player with 10 records and write a program to read the information about all the 10 players. And print the list containing the name of the players in ascending order of the batting average.