EXPERIMENT-9: Structure and Union

Objective: To understand the concept of structure and union.

List of Lab Activities:

Write algorithm and C program, compile, execute and test the code using Linux C compiler with suitable test cases.

1. Design a structure 'product' to store the details of the product purchased like product name, price per unit, number of quantities purchased, and amount spent. Get the name, price per unit, and number of quantities of the product purchased. Calculate the amount spent on the product and then display all the details of the procured product using structure pointers.
2. Design a structure 'student_record' to store student details like name, SAP ID, enrollment number, date of registration and data of birth. The element date of joining is defined using another structure 'date' to store date details like day, month, and year. Get data of 'n' students and then print the entered values [Hint: Use concept of Nested structures and Array of Structures].
3. Design a union 'product' to store the details of the product purchased like product name, price per unit, number of quantities purchased, and amount spent. Get the name, price per unit, and number of quantities of the product purchased. Calculate the amount spent on the product and then display all the details of the procured product using union pointers.

List of Practice Activities:

Write algorithm and C program, compile, execute and test the code using Linux C compiler with suitable test cases.

1. Add two complex numbers by passing structure to a function as argument.