



- b) i) Write a C program to implement the function `int Myatoi (const char *str)` which converts given string into an integer, without using C's `atoi` library function. Assume that given string contains a positive integer only. Write appropriate `main()` function and trace your program for the input string "30462". (8)
- ii) Write a C program to find roots of a quadratic equation ($ax^2 + bx + c$) when `a`, `b` and `c` values are given. Assume that the roots are real numbers. (8)

12. a) Write a C program to implement the following. (16)

- 1) Define a structure for employees with employee ID number (integer), name (64 characters), salary (floating point value) and performance rating (valid values are integers 1, 2, 3, 4 and 5).
- 2) Get user input entries for 100 employees to get ID, name, salary and performance rating value.
- 3) Then allow user to search using employee ID. Once the matching employee is found, print all details about the employee. Continue till user wants to continue searching.
- 4) Then compute bonus amount for each employee, using table below. Finally display all employee IDs and their corresponding bonus amounts.

Performance rating	Bonus percentage on salary
1	5
2	10
3	15
4	20
5	25

(OR)

- b) i) Write a C program to concatenate the content of two text files into a third file. (8)
- ii) Define the following terms with respect to file handling, with an example each.
- 1) Data Field (2)
 - 2) Record (2)
 - 3) File (2)
 - 4) File Access Method (2)