



Functions, File Handling, Modules and Exception Handling

1. Write a Function to solve a polynomial equation.
2. Any year is entered through the keyboard. Write a function to determine whether the year is a leap year or not.
3. A positive integer is entered through the keyboard. Write a function to obtain the prime factors of this number. For example, prime factors of 24 are 2, 2, 2 and 3, whereas prime factors of 35 are 5 and 7.
4. Write a function which receives a float and an int from `main()`, finds the product of these two and returns the product which is printed through `main()`.
5. Write a program to read a file and display contents with its line numbers.
6. Suppose a file contains student's records with each record containing name and age of a student. Write a program to read these records and display them in sorted order by name.
7. Write a program to append any input text at the end of a file. Also, find size of a given file before and after appending content.
8. Write a program the location of the file within the file system.
9. Write a program to merge the content of two files, copy the merged file to a specified location. Then split merged file.
10. Write a program to read a file and print number of words, alphabets, numbers, special characters and white spaces using functions.

Note: - Accomplish all these programs using Exception Handling.