Day-11 Assignment Questions:
1. Write a Java program to read the contents of a text file and display it on the console.
2. Write a Menu driven Java program a) to read content from the user and write it into another file and b) from the file to another file c) to modify the content of a file d) to search for a particular word in a file and display how many times it appears e) read the content(List of Electronic Products) of a .txt file and copy them to the .csv file.
3. Write a Java program that reads a file and prints the number of lines, words, and characters.
4. Write a Java program to append a text read from the user to an existing file without overwriting the original content.
5. Design a Java application to manage a product inventory system using file handling and object serialization.
Create a class Product with the following attributes:
--->int productId
--->String name
--->double price
--->int quantity
a. Ensure the class implements the Serializable interface.
b. Methods:
--->Add a Product: Accept product details from the user and write the object to a file (products.dat).
--->View All Products: Read all product objects from the file and display them.
--->Search Product by ID: Search for a product by productId in the file and display its details if found.
--->Update Product: Locate a product in the file using the ID, update its price or quantity, and save the changes back to the file.
--->Delete Product: Remove a product object from the file by ID (involves rewriting the file).
--->Use proper exception handling and ensure that object serialization and deserialization are handled safely and efficiently.