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JAVA LAB-8

FILES

- 1. Write a program that allows you to create a file of customers for a company. The first part of the program should create an empty file suitable for writing a three-digit ID number, six-character last name, and five-digit zip code for each customer. The second half of the program accepts user input to populate the file. For this exercise, assume that the user will correctly enter ID numbers and zip codes, but force the customer name to seven characters if it is too long or too short. Issue an error message, and do not save the records if the user tries to save a record with an ID number that already has been used. Save the program as CreateCustomerFile.java.
- b. Write a program that creates a file of items carried by the company. Include a three-digit item number and up to a 20-character description for each item. Issue an error message if the user tries to store an item number that already has been used. Save the program as CreateItemFile.java.
- c. Write an application that takes customer orders. Allow a user to enter a customer number and item ordered. Display an error message if the customer number does not exist in the customer file or the item does not exist in the item file; otherwise, display all the customer information and item information. Save the program as CustomerItemOrder.java.

CreateCustomerFile.java

```
public class CreateCustomerFile
       Scanner input= new Scanner(System.in);
           RandomAccessFile file=new
```

```
file.seek(Integer.parseInt(id)*100);
    file.writeUTF(id);
    file.writeUTF(lastname);
    file.writeUTF(zip);
}
System.out.println("Do you want to enter more customer
details? (Yes/No):");
    hasMoreCustomers =
input.nextLine().equalsIgnoreCase("Yes")?true:false;
}while(hasMoreCustomers);
file.close();
}
catch(IOException e)
{
System.out.println("Error while accessing file");
}
}
```

```
Enter 3 digit ID number:

123
Enter 6 character last name:

Yolovi
Enter 5 digit zip code:
54678
Do you want to enter more customer details? (Yes/No):
Yes
Enter 3 digit ID number:
456
Enter 6 character last name:
Method
Enter 5 digit zip code:
78906
Do you want to enter more customer details? (Yes/No):
No

Process finished with exit code 0
```

CreateItemFile.java

```
throw new IOException();
}
System.out.println("Item already present");
}
catch(IOException e)
{
    file.seek(Integer.parseInt(item)*100);
        file.writeUTF(item);
        file.writeUTF(description);
        file.close();
}
System.out.println("Do you want to enter more item details
(Yes/No):");
    hasMoreItems =
input.nextLine().equalsIgnoreCase("Yes")?true:false;
    }while(hasMoreItems);
    file.close();
}
catch(IOException e)
{
    System.out.println("Error while accessing file");
}
}
```

CompanyItems - Notepad — X

File Edit Format View Help

567
Phone897App

Ln 2, Col 12 100% Windows (CRLF) UTF-8

CustomerItemOrder.java

```
oublic class CustomerItemOrder {
        Scanner input = new Scanner(System.in);
            RandomAccessFile itemFile = new
RandomAccessFile("CompanyItems.txt", "rw");
            RandomAccessFile customerFile = new
            customerFile.close();
            itemFile.close();
```

```
Enter 3 digit customer ID :

123

Enter 3 digit item id :

897

Customer details :

ID : 123

Last name : Yoloui

Zip : 54678

Item details :

ID : 897

Description: App

Process finished with exit code 0
```