

Advance Python Assessment Test

- Write a program to demonstrate the Billing application
- Prepare demonstration of Python Billing application under software development principles and follow coding protocols
- The project was built in a GUI application called tkinter module that compose with different widgets to create an effective interactive interface.
- In this application all operations using MySQL queries
- Create GUI application using tkinter module

Billing Software

Customer Details

Customer Name: Phone No: Bill No.:

Cosmetics

Bath Soap:
Face Cream:
Face Wash:
Hair Spray:
Body Lotion:

Grocery

Rice:
Food Oil:
Daal:
Wheat:
Sugar:

Others

Maza:
Coke:
Frooti:
Nimkos:
Biscuits:

Bill Area

Welcome To Hanan's Retail

Bill No. : 2367
Customer Name : Mina Kumari
Phone No. : 9808324972

Product	Qty	Price
Bath Soap	5	200
Face Cream	1	140
Face Wash	1	240
Body Lotion	1	260
Food Oil	2	360
Daal	4	320
Rice	1	80
Sugar	2	340
Frooti	20	1000
Coke	1	60
Biscuits	5	100

Bill Menu

Total Cosmetics: Cosmetics Tax:
Total Grocery: Grocery Tax:
Others Total: Others Tax:

- Make sure each business logic is denoted with appropriate comments and make your code interactive and represent clean and clear output on tkinter screen.
- Perform above operations
 - On click event of generate bill – generate bill in txt file format
- Design forms in tkinter based GUI application and accept all values
- Store all data in MySQL database create separate file for database connection.

- **Make sure this code implements using oops concepts only**
- **Manage proper naming conversion – create appropriate objects name.**
- **Implement common fields using inheritance concepts only and make it more readable. Balance field must be private only customer can access this field**
- **Use encapsulation concept in this project**
- **create separate file for all business logics and make them reusable - use modules concepts with class ,object functionality for implements above logic**
- **Make sure validation proper given – each options - display appropriate message if user enter invalid input string inbuilt methods concepts in this logic implementation**
- **Make sure code prevent from unexpected exception return to the previous menu and accept all details again.**
- **Make sure Database normalize manage in this project work**
- **After execution of each option confirmation message must be displayed.**
- **Remove option must ask to user for question id to delete and again ask for confirmation (Y/N) before deletion and display proper message after deletion**
- **Program should not be terminated till the user Exit it**
- **Developer needs to test his product before launching it into the market**
- **After completion this project upload it on GitHub**
 - **Upload all features in develop branch after completion all features merge it with main branch**

