Week 16 Lab

- 1. Create a class **BillingSystem** (Super Class) with the following:
 - a. getDiscount() return discount percentage
 - b. calculateTotal()
 - Using scanner input the Subtotal from user
 - Calculate total as:
 - Total = Subtotal discount% of Subtotal
 - Print total
- 2. Create a class MyRestro (Sub Class of BillingSystem) with the following:
 - a. **getDiscount ()** return the discount percentage
 - b. displayFoodItems() Print the names of few foods
- 3. Create a class MyCafe (Sub Class of BillingSystem)
 - a. displayCoffeeItems() Print the names of few coffee
- 4. Create a class Runner with the following:
 - a. Main method:
 - Create object of Runner class
 - Create object of MyCafe as myCafe, assign it to parent reference and call handleBilling (myCafe) using runner object
 - Create object of MyRestro as myRestro, assign it to parent reference and call handleBilling (myRestro) using runner object

- b. handleBilling(BillingSystem billingSystem)
 - Call calculateTotal method
 - If the billingSystem is instance of MyRestro
 - a. Downcast it to MyRestro and call displayFoodItems() method
 - If the billingSystem is instance of MyCafe
 - a. Downcast it to MyCafe and call displayCoffeeItems() method