task-1

```
In [15]: class student:
    def __init__ (val, student_name, marks):
        val.student_name = student_name
        val.marks = marks
student = student("faiz raza", 80)
print("original class: ")
print(student.student_name)
print(student.marks)
student.student_name = "Gufi"
student.marks = 30
print("modified class: ")
print(student.student_name)
print(student.marks)
original class:
faiz raza
80
modified class:
Gufi
30
```

task-2

```
In [16]: class Restaurant:
    def __init__(self):
        self.menu_items = []
         self.book table = []
         self.customer orders = []
    def add item to menu(self, item name, price):
         self.menu_items.append({"item_name": item_name, "price": price})
    def book tables(self, table number):
         self.book_table.append(table_number)
    def customer order(self, table number, item name):
         self.customer_orders.append({"table_number": table_number, "item_name":
    def print menu(self):
        print("Menu:")
        for item in self.menu_items:
            print(f"- {item['item name']}: ${item['price']}")
    def print table reservations(self):
        print("Table Reservations:")
        for table number in self.book table:
            print(f"- Table {table number}")
    def print customer orders(self):
        print("Customer Orders:")
        for order in self.customer orders:
            print(f"- Table {order['table number']}: {order['item name']}")
# Create an instance of the Restaurant class
restaurant = Restaurant()
# Add items to the menu
restaurant.add item to menu("Pizza", 10)
restaurant.add_item_to_menu("Burger", 8)
restaurant.add item to menu("Salad", 6)
# Make table reservations
restaurant.book tables(1)
restaurant.book_tables(2)
restaurant.book_tables(3)
# Take customer orders
restaurant.customer_order(1, "Pizza")
restaurant.customer_order(2, "Burger")
restaurant.customer order(3, "Salad")
# Print the menu
restaurant.print menu()
# Print table reservations
restaurant.print table reservations()
# Print customer orders
restaurant.print_customer_orders()
```

Menu:

Pizza: \$10Burger: \$8Salad: \$6

Table Reservations:

Table 1Table 2Table 3

Customer Orders:

Table 1: PizzaTable 2: BurgerTable 3: Salad

In []: