Assignment(Hotel Application)

class FoodItem:

def \_\_init\_\_(self, name, price):

self.name = name

self.price = price

def \_\_str\_\_(self):

return f"{self.name} - Rs. {self.price}"

class Order:

def \_\_init\_\_(self):

self.items = []

self.total = 0.0

def add\_item(self, item):

self.items.append(item)

self.total += item.price

def show\_order(self):

print("\nYour Order:")

for item in self.items:

print(item)

print(f"Total: Rs. {self.total}")

def show\_menu(menu\_category, menu):

print(f"\n{menu\_category}:")

for index, item in enumerate(menu, start=1):

print(f"{index}. {item}")

def main():

starters = [FoodItem("Spring Rolls", 100.0), FoodItem("Soup", 120.0), FoodItem("Salad", 80.0)]

main\_course = [FoodItem("Pizza", 250.0), FoodItem("Burger", 150.0), FoodItem("Pasta", 200.0)]

desserts = [FoodItem("Ice Cream", 120.0), FoodItem("Cake", 150.0), FoodItem("Fruit Salad", 100.0)]

drinks = [FoodItem("Coffee", 50.0), FoodItem("Tea", 30.0), FoodItem("Juice", 60.0)]

order = Order()

while True:

print("\nWelcome to the Hotel! Choose an option:")

print("1. Starters")

print("2. Main Course")

print("3. Dessert")

print("4. Drinks")

print("5. Show Bill and Exit")

try:

choice = int(input("Enter your choice (1-5): "))

if choice == 1:

show\_menu("Starters", starters)

item\_choice = int(input("Enter the item number to add or 0 to cancel: "))

if item\_choice == 0:

continue

elif 1 <= item\_choice <= len(starters):

order.add\_item(starters[item\_choice - 1])

print(f"{starters[item\_choice - 1].name} added.")

else:

print("Invalid choice, try again.")

elif choice == 2:

show\_menu("Main Course", main\_course)

item\_choice = int(input("Enter the item number to add or 0 to cancel: "))

if item\_choice == 0:

continue

elif 1 <= item\_choice <= len(main\_course):

order.add\_item(main\_course[item\_choice - 1])

print(f"{main\_course[item\_choice - 1].name} added.")

else:

print("Invalid choice, try again.")

elif choice == 3:

show\_menu("Desserts", desserts)

item\_choice = int(input("Enter the item number to add or 0 to cancel: "))

if item\_choice == 0:

continue

elif 1 <= item\_choice <= len(desserts):

order.add\_item(desserts[item\_choice - 1])

print(f"{desserts[item\_choice - 1].name} added.")

else:

print("Invalid choice, try again.")

elif choice == 4:

show\_menu("Drinks", drinks)

item\_choice = int(input("Enter the item number to add or 0 to cancel: "))

if item\_choice == 0:

continue

elif 1 <= item\_choice <= len(drinks):

order.add\_item(drinks[item\_choice - 1])

print(f"{drinks[item\_choice - 1].name} added.")

else:

print("Invalid choice, try again.")

elif choice == 5:

order.show\_order()

break

else:

print("Invalid option, try again.")

except ValueError:

print("Please enter a valid number.")

if \_\_name\_\_ == "\_\_main\_\_":

main()