250240128002 Aditya Bhawsar

```
from abc import ABC, abstractmethod
class CartIsEmptyException(Exception):
class AmountInvalidException(Exception):
class DesertItem(ABC):
  def getName(self):
class Candy(DesertItem):
           raise AmountInvalidException("Weight must be positive")
      self.weightInGms = weightInGms
class Cookie(DesertItem):
          raise AmountInvalidException("Units must be positive")
class IceCream(DesertItem):
```

```
class Sundae(IceCream):
class Checkout:
      self.cashRegister.append(dessertItem)
      if not self.cashRegister:
      for i in self.cashRegister:
      self.cashRegister.clear()
      if not self.cashRegister:
      invoice = {}
           invoice[i.getName()] = i.getCost()
try:
  candy = Candy("Chocolate", 450)
  cookie = Cookie("Butter", 7)
```

```
sundae = Sundae("Butterscotch large", 2)

checkout = Checkout()

checkout.addToCart(candy)
  checkout.addToCart(cookie)
  checkout.addToCart(sundae)
  checkout.addToCart(icecream)

print(checkout)

checkout.clearCart()
  print(checkout)

if not checkout.cashRegister:
    raise CartIsEmptyException("Cart is empty.")

except CartIsEmptyException as e:
    print(e)

except AmountInvalidException as e:
    print("Error: ",e)

except Exception as e:
    print("An unexpected error occurred: ",e)
```