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**CODE**

**GST ON UNIT PRICE.**

class Product:

def \_init\_(self, name, unit\_price, gst\_percentage, quantity):

self.name = name

self.unit\_price = unit\_price

self.gst\_percentage = gst\_percentage

self.quantity = quantity

def get\_name(self):

return self.name

def get\_unit\_price(self):

return self.unit\_price

def get\_gst\_percentage(self):

return self.gst\_percentage

def get\_quantity(self):

return self.quantity

def calculate\_gst\_amount(self):

return self.unit\_price \* self.gst\_percentage / 100 \* self.quantity

def calculate\_total\_price(self):

total\_price = self.unit\_price \* self.quantity

if self.unit\_price >= 500:

total\_price -= total\_price \* 0.05 # Apply 5% discount

return total\_price

def create\_basket():

basket = []

# Add products to the basket

basket.append(Product("Leather wallet", 1100, 18, 1))

basket.append(Product("Umbrella", 900, 12, 4))

basket.append(Product("Cigarette", 200, 28, 3))

basket.append(Product("Honey", 100, 0, 2))

return basket

def find\_product\_with\_max\_gst(basket):

max\_gst\_product = None

max\_gst\_amount = 0

for product in basket:

gst\_amount = product.calculate\_gst\_amount()

if gst\_amount > max\_gst\_amount:

max\_gst\_amount = gst\_amount

max\_gst\_product = product

return max\_gst\_product

def calculate\_total\_amount(basket):

total\_amount = 0

for product in basket:

product\_price = product.calculate\_total\_price()

total\_amount += product\_price + product.calculate\_gst\_amount()

return total\_amount

basket = create\_basket()

max\_gst\_product = find\_product\_with\_max\_gst(basket)

total\_amount = calculate\_total\_amount(basket)

print("Product with Maximum GST Amount:", max\_gst\_product.get\_name())

print("Total Amount to be Paid: Rs.", total\_amount)



**GST ON SELLING PRICE**

class Product:

def \_init\_(self, name, unit\_price, gst\_percentage, quantity):

self.name = name

self.unit\_price = unit\_price

self.gst\_percentage = gst\_percentage

self.quantity = quantity

def get\_name(self):

return self.name

def get\_unit\_price(self):

return self.unit\_price

def get\_gst\_percentage(self):

return self.gst\_percentage

def get\_quantity(self):

return self.quantity

def calculate\_discounted\_price(self):

if self.unit\_price >= 500:

return self.unit\_price - (self.unit\_price \* 0.05) # 5% discount

return self.unit\_price

def calculate\_gst\_amount(self):

selling\_price = self.calculate\_discounted\_price()

return selling\_price \* self.gst\_percentage / 100 \* self.quantity

def calculate\_total\_price(self):

selling\_price = self.calculate\_discounted\_price()

gst\_amount = self.calculate\_gst\_amount()

return selling\_price \* self.quantity + gst\_amount

def create\_basket():

basket = []

# Add products to the basket

basket.append(Product("Leather wallet", 1100, 18, 1))

basket.append(Product("Umbrella", 900, 12, 4))

basket.append(Product("Cigarette", 200, 28, 3))

basket.append(Product("Honey", 100, 0, 2))

return basket

def find\_product\_with\_max\_gst(basket):

max\_gst\_product = None

max\_gst\_amount = 0

for product in basket:

gst\_amount = product.calculate\_gst\_amount()

if gst\_amount > max\_gst\_amount:

max\_gst\_amount = gst\_amount

max\_gst\_product = product

return max\_gst\_product

def calculate\_total\_amount(basket):

total\_amount = 0

for product in basket:

total\_amount += product.calculate\_total\_price()

return total\_amount

basket = create\_basket()

max\_gst\_product = find\_product\_with\_max\_gst(basket)

total\_amount = calculate\_total\_amount(basket)

print("Product with Maximum GST Amount:", max\_gst\_product.get\_name())

print("Total Amount to be Paid: Rs.", total\_amount)

