

# Python If Else Practice Questions

## A- Discounts and Pricing

### 1. Check Discount Eligibility

Write a program to check if a customer is eligible for a discount. If the total purchase is more than \$100, apply a 10% discount and display the final price. Otherwise, display the total price as it is.

### 2. Calculate Bulk Discount

If a customer buys more than 5 items, apply a 15% discount on the total price. Otherwise, no discount is applied. Display the total price.

### 3. Membership Discount

Check if the customer is a member (`is_member = True`). Members get a 20% discount; non-members get a 5% discount. Calculate and print the discounted price.

### 4. Seasonal Sale

If today is a holiday (`is_holiday = True`), apply a 25% discount; otherwise, apply a 10% discount. Calculate the price after discount.

### 5. Buy-One-Get-One-Free

If a customer buys an even number of items, they get half of them for free. Otherwise, they pay for all. Calculate the number of items the customer has to pay for.

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## B- Tax Calculations

### 6. Sales Tax

If the price of an item is greater than \$500, apply a luxury tax of 15%. Otherwise, apply a standard tax of 8%. Display the total price after tax.

### 7. Income Tax

If a person's annual income is above \$50,000, they pay 20% tax. Otherwise, they pay 10%. Calculate and display the tax amount.

### 8. Tax Bracket

Write a program to categorize a person into tax brackets:

- `Income < $30,000`: "Low Tax"
- `$30,000 ≤ Income < $100,000`: "Medium Tax"
- `Income ≥ $100,000`: "High Tax"

### 9. VAT Calculation

If the item is marked as essential (`is_essential = True`), apply a VAT of 5%. Otherwise, apply a VAT of 12%. Display the final price.

#### 10. **Tax-Free Day**

If today is a tax-free day (tax\_free = True), display the original price. Otherwise, add a 7% tax.

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### **C- Shopping and Billing**

#### 11. **Free Shipping**

If the total purchase amount is more than \$50, offer free shipping; otherwise, charge \$5 for shipping. Display the total amount including shipping.

#### 12. **Discount Code**

If a customer enters the correct discount code (DISCOUNT10), apply a 10% discount. Otherwise, charge the full amount.

#### 13. **Tiered Discounts**

Apply discounts based on the total price:

- \$0–\$50: No discount.
- \$50–\$100: 10% discount.
- Over \$100: 20% discount.

#### 14. **Minimum Purchase Requirement**

If the total amount is less than \$20, display a message: "Minimum purchase of \$20 is required." Otherwise, display the total amount.

#### 15. **Loyalty Points**

If a customer is a loyal member (is\_loyal = True), they earn double loyalty points for their purchase. Otherwise, they earn standard points.

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### **D- Travel and Tickets**

#### 16. **Travel Discount**

If a person is traveling more than 500 miles, offer a 20% discount on ticket price. Otherwise, charge the full amount.

#### 17. **Child or Senior Discount**

If a passenger is under 12 or over 60 years old, apply a 15% discount on the ticket price. Otherwise, charge the full price.

#### 18. **Ticket Type Pricing**

If the ticket is for a weekend (is\_weekend = True), add a 10% surcharge. Otherwise, charge the standard price.

**19. Baggage Fee**

If the total baggage weight is over 20kg, charge \$10 per extra kilogram. Otherwise, no extra fee.

**20. Early Bird Discount**

If a ticket is booked more than 30 days in advance, apply a 10% discount. Otherwise, charge the full price.

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**E- Grades and Performance**

**21. Pass or Fail**

If a student scores 40 or more, print "Pass". Otherwise, print "Fail".

**22. Grade Assignment**

Based on a student's score, assign grades:

- 90 and above: "A"
- 75–89: "B"
- 50–74: "C"
- Below 50: "F"

**23. Bonus Marks**

If a student completes all assignments, add 5 bonus marks to their score. Otherwise, no bonus marks.

**24. Attendance Eligibility**

If a student's attendance is 75% or more, they are eligible to take the exam. Otherwise, they are not.

**25. Scholarship Eligibility**

If a student's grade is "A" and their annual family income is below \$30,000, they are eligible for a scholarship. Otherwise, they are not.

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