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.

In [4]:
```
price=float(input("Enter the Price in Dollars:"))
discount=price*0.1
final_price=price-discount
if price >100:
    print(f"Congratulations You Got 10% Discount on your Product now the discountted amount is:{final_price}$")
else:
    print("The amount of shopping is:",price)
```

```
Congratulations You Got 10% Discount on your Product now the discountted amount is:180.0$
```

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.

In [34]:
```
item=float(input("Enter the number of items:"))
if item>5:
    item1=float(input("Enter the amount of items:"))
    discount=item1*0.15
    final_price=item1-discount
    print("You have bought more than 5 items so Congratulations there is 15% discount on it so the Total amount
else:
    item2=float(input("Enter the amount of items:"))
    print("The Total Amount Is:",item2)
```

```
You have bought more than 5 items so Congratulations there is 15% discount on it so the Total amount after disco
unt is : 8500.0
```

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.

In [41]:
```
Members=(["Zarrar","Zaid","Abdullah","Hammad","Obaid","Saleh"])
member1=input("Enter your name:")
if member1 in Members:
    item=float(input("Enter the amount of product:"))
    discount=item*0.2
    final_price=item-discount
    print("Your a member so congratulations you got 20% discount on your purchase so now the amount is:",final_
else:
    item1=float(input("Enter the amount of the product:"))
    discount2=item1*0.05
    final_price1=item1-discount2
    print("You are not a member so you have got 5% discount on you purchase so now the total amount is:",final_
```

```
Your a member so congratulations you got 20% discount on your purchase so now the amount is: 8000.0
```

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.

In [45]:
```
holiday=(["Saturday","Sunday"])
day=input("Which Day is Today:")
item=float(input("Enter the amount of product:"))
if day in holiday:
    discount=item*0.25
    final_price=item-discount
    print("Today is Holiday,Congratulations you have got 20% discount on your Purchase your total amount is:",f
else:
    discount=item*0.1
    final_price=item-discount
    print("The total amount is :",final_price)
```

```
Today is Holiday,Congratulations you have got 20% discount on your Purchase your total amount is: 75.0
```

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.

In [25]:
```
item=int(input("Enter the numbers of items you have purchased:"))
if item% 2 == 0:
    buy=int(input("Enter the amount of items:"))
    item2=buy/2
    print("Congratulations you have won the offer now the price is: ",item2)
else:
    buy=float(input("Enter the amount of items:"))
    print("The amount of products are:",buy)
```

```
The amount of products are: 1000.0
```

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.

In [27]:
```
item=float(input("Enter the amount of product"))
if item > 500:
    tax=item*(1+0.15)
    print("The amount of products afthe luxury tax is :",tax)
else:
    tax=item*(1+0.08)
    print("The amount of products after standard tax is:",tax)
```

```
The amount of products afthe luxury tax is : 1150.0
```

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

In [29]:
```
income=float(input("Enter your income:"))
if income>50000:
    tax=income*0.20
    tax1=income-tax
    print("After charging tax, your income is:",tax1)
else:
     tax=income*0.10
     tax1=income-tax
     print("After charging tax, your income is:",tax1)
```

```
After charging tax, your income is: 900.0
```

8.Tax Bracket

Write a program to categorize a person into tax brackets: ▲Income < $30,000 :" LowTax "$ ▲ 30,000 ≤ Income < $100,000 :" MediumTax "$ ▲ $Income \geq$ 100,000: "High Tax"

In [6]:
```
income=float(input("Enter yout income:"))
if income<30000:
    print("Low Tax")
elif income<=30000:
    print("Medium tax")
elif income<=30000:
    print("Medium tax")
elif income>=100000:
    print("High Tax")
```

```
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.

In [13]:
```
essential=(['egg','yougurt','milk','chiken','meat'])
item=input("Enter the item name:")
price=float(input("Enter the price:"))
if item in essential:
    final_price=price*(1+0.05)
    print("Your product price after VAT is:",final_price)
```

```
else:
    final_price=price*(1+0.12)
    print("Your product price after VAT is:",final_price)
```

```
Your product price after VAT is: 112.00000000000001
```

10.Tax-Free Day

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

In [15]:
```
tax_free_days=(['Sunday'])
day=input("What day is today:")
item=float(input("Enter the item price:"))
if day in tax_free_days:
    print("The orginal price:",item)
else:
    price=item*(1+0.07)
    print("The item price after adding tax is:",price)
```

```
The item price after adding tax is: 107.0
```

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.

In [17]:
```
amount=float(input("Enter the purchased amount:"))
if amount>50:
    print("Congratulations you have purchased more than 50$ now you got free shiping, the amount is:",amount)
else:
    charge=amount+5
    print("After shipping fee your amount is :",charge)
```

```
After shipping fee your amount is : 20.0
```

12. Discount Code

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

In [18]:
```
discout_code=(['DISCOUNT10'])
amount=float(input("Enter the amount:"))
code=input("Enter the code:")
if code in discout_code:
    discount=amount*0.10
    final_price=amount-discount
    print("Total price after discount is :",final_price)
else:
    print("The full amount is:",amount)
```

```
Total price after discount is : 900.0
```

13.Tiered Discounts

Apply discounts based on the total price: ▲0–50: No discount. ▲50–100: 10% discount. ▲Over $100: 20% discount.

In [3]:
```
amount=float(input("Enter the amount:"))
if amount<50:
    print("No Discount the amount is:",amount)
elif amount>50 and amount<100:
    discount=amount*0.10
    final_price=amount-discount
    print("The amount after 10% discount is:",final_price)
elif amount>100:
    discount=amount*0.20
    final_price=amount-discount
    print("The amount after 20% discount is:",final_price)
```

```
The amount after 20% discount is: 176.0
```

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.

In [2]:
```
purchase=float(input("Enter the amount"))
if purchase<20:
    print("Minimum purchase of $20 is required")
```

```
else:
    print("The total amount is:",purchase)
```

```
Minimum purchase of $20 is required
```

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.

In [9]:
```
loyal_members=(['Zarrar','zaid','Hammad','kalmati','obaid'])
name=input("Enter your name:")
if name in loyal_members:
    print("since your a loyal member so you got double points for your purchase:")
else:
    print(f"Since your {name} so you have got the standard points:")
```

```
since your a loyal member so you got double points for your purchase:
```

16.Travel Discount

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

In [7]:
```
miles=float(input("How many do you have travelled:"))
ticket_price=2000
if miles>500:
    discount=ticket_price*0.20
    final_price=ticket_price-discount
    print("The total amount of ticket after 20% discount :",final_price)

else:
    print("The total amount of ticket is :",ticket_price)
```

```
The total amount of ticket after 20% discount : 1600.0
```

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.

In [15]:
```
age=int(input("Enter your age:"))
ticket_price=200
if age<12:
    discount=ticket_price*0.15
    final_price=ticket_price-discount
    print("The amount of ticket price after 15% discount is:",final_price)
elif age>60:
    discount=ticket_price*0.15
    final_price=ticket_price-discount
    print("The amount of ticket price after 15% discount is:",final_price)

else:
    print("The amount of ticket is:",ticket_price)
```

```
The amount of ticket price after 15% discount is: 170.0
```

18.Ticket Type Pricing

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

In [18]:
```
weekend=(["Sunday","Saturday"])
ticket=500
today=input("What day is today:")
if today in weekend:
    discount=ticket*0.10
    final_price=ticket-discount
    print("Today is weekend so we charge 10% extra so now the total amount is:",final_price)
else:
    print("The total amount of ticket is:",ticket)
```

```
Today is weekend so we charge 10% extra so now the total amount is: 450.0
```

19.Baggage Fee

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

In [2]:
```
fee=500
```

```
weight=float(input("Enter the weight in Kg:"))
if weight >20:
    charge = fee+10
    print(f"Since the weight is {weight}Kg so the total fee after charge is: {charge} ")
else:
    print(f"Since the weight is {weight}Kg so the amount is: {fee}")
```

```
Since the weight is 10.0Kg so the amount is: 500
```

20.Early Bird Discount

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

In [4]:
```
ticket_price=2000
booked=int(input("How many days you have been booked the ticket:"))
if booked >30:
    discoint=ticket_price*0.10
    print(f"Since you have booked the ticket {booked} days ago, now you have 10% discount so the amount is {tic
else:
    print("your ticket price is:",ticket_price)
```

```
Since you have booked the ticket 33 days ago, now you have 10% discount so the amount is 1800.0
```

21.Pass or Fail

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

In [6]:
```
score=float(input("Enter the score:"))
if score >=40:
    print("Pass")
else:
    print("Fail")
```

```
Pass
```

22.Grade Assignment

Based on a student's score, assign grades: ▲90 and above: "A" ▲75–89: "B" ▲50–74: "C" Below 50: "F

In [9]:
```
score=float(input("Enter your score:"))
if score>=90:
    grade="A"
elif score>=75:
    grade="B"
elif score>=50:
    grade="C"
else:
    grade="F"
print(f"Since the score is {score} so the grade is {grade}")
```

```
Since the score is 91.0 so the grade is A
```

23.Bonus Marks

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

In [21]:
```
assignment=int(input("How many assignment you have Done yet:"))
mark=0
if assignment >=20:
    marks=20+5
elif assignment >=10:
    marks=10
elif assignment >=5:
    marks=5
else:
    marks=3
print(f"since you have done {assignment} assignments so your marks={marks}")
```

```
since you have done 26 assignments so your marks=25
```

24.Attendance Eligibility

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

In [2]:
```
name=input("What is your name:")
atten=float(input("How much is your attendence in percentage :"))
if atten>=75:
    print(f"Since your attendence is {atten}% You are allowed to take the exam")
else:
    print(f"Since your attendance is {atten}% You are not allowed to take the exam")
```

```
Since your attendence is 76.0% You are allowed to take the exam
```

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.

In [7]:
```
grade=input("Enter your grade:")
if grade == "A":
    income=float(input("Enter your income:"))
    if income<30000:
        print("You are eligible for a scholarship")
    else:
        print("Your income is to high you can affort the fees")
else:
    print("Your grade is low")
```

```
You are eligible for a scholarship
```

In [ ]: