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In [3]: #Question 1
        name = input("What is your name? ")
        dept = input("What department do you work for? ")
         salary = int(input("What is your salary? "))
        years_of_service = int(input("How many years of service do you have? "))
         if(years of service > 10):
            print(f"Thank you for your {years_of_service} years of service in the {dept} depart
         elif(years_of_service >= 6 and years_of_service <= 10):</pre>
            print(f"Thank you for your {years of service} years of service in the {dept} depart
        else:
            print(f"Thank you for your {years_of_service} years of service in the {dept} depart
        What is your name? John Smith
        What department do you work for? Accounting
        What is your salary? 90000
        How many years of service do you have? 8
        Thank you for your 8 years of service in the Accounting department. You will get a $720
        0.0 bonus.
In [1]: #Question 2
        name = input("What is your name? ")
        dept = input("What department do you work for? ")
         salary = int(input("What is your salary? "))
        years_of_service = int(input("How many years of service do you have? "))
         perf_rating = input("What is your performance rating? ")
         bonus = 0
         if(perf_rating.lower() == 'excellent'):
            bonus += 5
         elif(perf_rating.lower() == 'good'):
            bonus += 2
         if(years of service > 10):
            bonus += 10
            print(f"Thank you for your {years_of_service} years of service in the {dept} depart
         elif(years_of_service >= 6 and years_of_service <= 10):</pre>
            bonus += 8
            print(f"Thank you for your {years of service} years of service in the {dept} depart
         else:
            print(f"Thank you for your {years_of_service} years of service in the {dept} depart
        What is your name? John Smith
        What department do you work for? Accounting
        What is your salary? 90000
        How many years of service do you have? 8
        What is your performance rating? Good
        Thank you for your 8 years of service in the Accounting department. Your performance ra
        ting was: Good. You will get $9000.0 in bonuses.
In [5]: #Question 3
        a = int(input("Input one integer: "))
        b = int(input("Input second integer: "))
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c = int(input("Input third integer: "))

a = abs(a)

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b = abs(b)
         c = abs(c)
         if( (a+b) > c ) and (a+c) > b ) and (b+c) > a )):
             if( (a ==b==c) ):
                 print("These three side lengths can form an equilateral triangle.")
             elif( (a==b) or (b==c) or (a==c) ):
                 print("These three side lengths can form an isoceles triangle.")
             else:
                 print("These three side lengths can form a scalene triangle.")
         else:
             print("These three side lengths will not form a triangle.")
        Input one integer: 6
        Input second integer: 6
        Input third integer: 6
        These three side lengths can form an equilateral triangle.
In [3]: # Question 4
         # Min Credit Score: 620
         # Min Income: $45,000
         # Min DTI: 43%
         name = input("What is your name? ")
         credit_score = int(input("What is your credit score? "))
         income = int(input("What is your yearly income? "))
         DTI = int(input("What is your debt to income ratio? "))
         if(credit score >= 620 and income >= 45000 and DTI <= 43):</pre>
             print("Congratulations! You qualify for a loan")
         else:
             if(credit_score >= 500 and income > 75000 and DTI < 37):</pre>
                 print("Congratulations! You still qualify for the loan")
             elif(income >= 35000 and credit_score >= 750 and DTI < 37 ):</pre>
                 print("Congratulations! You still qualify for the loan")
             elif(DTI <= 50 and income > 75000 and credit score > 750 ):
                 print("Congratulations! You still qualify for the loan")
             else:
                 print("Sorry! You did not qualify for the loan.")
        What is your name? Roheat
        What is your credit score? 630
        What is your yearly income? 45000
        What is your debt to income ratio? 43
        Congratulations! You qualify for a loan
In [ ]:
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