AffinityAnswers Recruitment Process

1.   The test cases we can use to test our program are -

1. Valid address with correct PIN code:
    Address: "2nd Phase, 374/B, 80 Feet Rd, Mysore Bank Colony, Banashankari 3rd Stage, Srinivasa Nagar, Bengaluru, Karnataka 560050"

2. Valid address with incorrect PIN code:
    Address: "2nd Phase, 374/B, 80 Feet Rd, Mysore Bank Colony, Banashankari 3rd Stage, Srinivasa Nagar, Bengaluru, Karnataka 560095"

3. Address without a PIN code:
    Address: "Colony, Bengaluru, Karnataka"

4. Address with multiple possible PIN codes:
    Address: "1st Main Road, Jayanagar, Bengaluru, Karnataka 560011"
    (This address has multiple post offices with different PIN codes. The program should identify the correct PIN code for the address.)

5. Address with invalid PIN code format:
    Address: "3rd Cross, Indiranagar, Bengaluru, Karnataka 5600"
    (The last digit of the PIN code is missing. The program should handle invalid PIN code formats gracefully.)

6. Address with non-existent PIN code:
    Address: "Outer Ring Road, Marathahalli, Bengaluru, Karnataka 5601030"
    (The PIN code has an extra digit at the end. The program should recognize that the PIN code does not exist.)

7. Address with partial PIN code:
    Address: "7th Block, Koramangala, Bengaluru, Karnataka 560"
    (The PIN code is missing the last two digits. The program should handle partial PIN codes and provide appropriate feedback.)

2.1 How many types of tigers can be found in the taxonomy table of the dataset? What is the "ncbi_id" of the Sumatran Tiger? (hint: use the biological name of the tiger) - **406; 9695**

2.2 Find all the columns that can be used to connect the tables in the given database. - **rfam_acc, rfam_id, rfamseq_acc, ncbi_id**

2.3 Which type of rice has the longest DNA sequence? (hint: use the rfamseq and the taxonomy tables) - **Cronobacter turicensis z3032 ; 4384463**