

Design on open ended questionnaire to interview your parents on a topic of your choice. Record their responses and write a summary of your key findings.

Topic: Village versus City Living

1. What do you like? Living in Village or in a city?
Mother: I like living in cities.
Father: I prefer rather villages.
2. What do you think is more important if you live in village or in city?
Mother: Easiness and facilities and education
Father: Nature and Biological Benefits
3. Why you not like living other way?
Mother: I can live in villages, but for shorter period of time. Not regularly.
Father: I prefer to have my home at the village and only opt cities for higher education or job opportunities.
4. How do me manage urbanization? If all the people move to cities?
Mother: Cities are more attractive in terms of facilities; therefore, government has to show incentives for villages to balance the two.
5. What do you do if someone is limited to remain in villages?
Father: It is difficult and unfair to bound to live in villages, of course there are much higher facilities in cities, on has to move to cities to avail these facilities. But to live in village is my natural tendency and interest.
6. What do like the most when you are living in cities?
Mother: I like the liveliness and globalization.
Father: I like earning opportunities.
7. What do like the worst when you are living in cities?
Mother: pollution, industrialization, lake of pure food
Father: People are mostly selfish and works like machinery.
8. What do like the most when you are living in villages?
Mother: The food.
Father: I guess each care about others more.
9. What do like the worst when you are living in villages?
Mother: Everyone seems free and talking others.
Father: The traffic to reach there is too old to travel.
10. Have you ever lived in the village?
Mother: Yes, I lived, but not much regular.
Father: I was born there, lived there until my college.
11. What is your favourite City?
Mother: Islamabad
Father: Rawalpindi
12. What is your best memory in the villages?
Mother: I have no such memory to remember.
Father: My childhood memories.
13. Do you want to live in village if it has sufficient facilities and is near to a city?
Mother: Yes, I can.
Father: Definitely.
14. Will you avail a job, with a good salary in a village?
Mother: No, I will first check the facilities and surroundings?
Father: I will opt if this is near to my home village.

Summary:

Both the life in village and cities and some advantages and disadvantages. My parents have a mix of interests and preferences to live in village or city.

Make an algorithm to find the average of three numbers 50,20 and 70.

Step 1: Start.

Step 2: Read the three number suppose "a=50", "b=20", "c=70" form the user.

Step 3: Declared a variable "sum" and "Avg".

Step 4: $sum = a + b + c$;

Step 5: $Avg = sum / 3$.

Step 6: Display "sum " and "Avg".

Step 7: End.

Make an algorithm and flow chart to sort a list of numbers in the ascending or increasing order. The numbers are (8, 31, 45, 12, 23, 89, 70, 105, 19, 67)

Step 1. Declare an array or list of capacity of size 10. Array [0] =8, Array [1] =31, Array [2] =45, Array [3] =12, Array [4] = 23, Array [5] = 89, Array [6] =70, Array [8] = 105, Array [8] =19, Array [9] =67

Step 2. N will indicate the number of elements in the array

Step 3. Iterating through for loops (from 0 to N), take integers as input from user and print them. These inputs are the elements of the array.

Step 4. Now, create a nested for loop with i and j as iterators.

Step 5. Start the sorting in ascending order by extracting each element at position i of outer loop.

Step 6. This element is being compared to every element from position (i+1) to (N-1) (means all elements present below this extracted element)

Step 7. In case any of the extracted element is greater than the element below it, then these two interchange their position, else the loop continues.

Step 8. After this nested loop gets executed, we get all the elements of the array sorted in ascending order.

