1. Explain about all lines of code 17, 18, 19 in PairManagement class .

Line 17 in the PairManagement class gets the value at index i + 1 of the List<String> lists using the get() method and sets it at index i using the set() method.

Line 18 in the PairManagement class gets the value at index i of the List<String> lists using the get() method and sets it at index i + 1 using the set() method.

Line 19 in the PairManagement class assigns the temporary variable temp to null after the swapping of elements has completed.

1. Explain the purpose of the method at line of code 22 in PairManagement class.

The method at line 22 in the PairManagement class returns the List<String> lists.

1. What happens if the statement "**lists**.add("**welcome**");" is added at the line 12. What are the results displayed?

If the statement "lists.add("welcome");" is added at line 12, the List<String> lists would have four elements ("fpt", "software", "fresher", "academy", "welcome").When the switchPair() method is called, the elements at even indices (0 and 2) would be swapped with the elements at odd indices (1 and 3), resulting in the List<String> lists containing the elements ("software", "fpt", "academy", "fresher", "welcome").