1. First of all complete the lecture work.

2. Write a class Date with suitable constructor, inspector and mutator methods. Also override equals and toString methods. Create array of object in main and sort that array depending on year only.

3. Write a class Address with suitable constructor, inspector and mutator methods. Also override equals and toString methods. Create array of object in main and sort that array depending on state name only.

4. Write a class Person with suitable constructor, inspector and mutator methods. Also override equals and toString methods. Create array of object in main and sort that array depending on birthdate only.

5. In shape class assignment ,create a array of objects of shape and provide the logic to sort array depending on either area as well as perimeter;

6. A Statistician is collecting information of two kinds of players
   One is Cricket player and other is Football player.
   There is always requirement of viewing income of players.
   a. Income of players is calculated as follows.
   1. Income of cricket player:
       Rs. 10000 per match played
       Rs. 20000 per man of the match award
   2. Income of football player:
       Rs. 8000 per match played
       Rs. 3000 per goal made by the player

   By assuming 10 different players accept the record for all players and then calculate income using above formula. Also sort array of players on the basis of income.