Exercise 7

1.) A company has planned to host parties for the employees. To follow covid protocols they have taken some measures. Employees who are having even employee-id and age less than 30 are going to attend the party in hall 1 and those who are having odd employee-id with age of more than 30 are going to attend the party in hall 2. The remaining are supposed to attend in hall 3. Take user inputs for the employee details. Generate a user defined exception with message "You are not allowed in hall 2 or hall 3" when the employee has even employee-id and age less than 30. If the employee is having odd employee-id of age more than 30 then raise another user defined exception with message "You are not allowed in hall 1 or hall 3". Also, print "Welcome to the party" along with the allotted hall name. At the same time, you need to check the average age of the employees for each of the halls. It is possible while finding average age, some exception may raise. Considering that predefined exception also keep proper exception handler. Print the exception in catch block.

2.) Write a user defined exception handling program in java to check the valid age for voting. Get the DOB from the user and calculate the age. If the age is less than 18 throw exception that the person cannot vote. Else display the user he is eligible for voting.