1. Write a Program in JAVA that returns the sum of multiples of 3 and 5 between 0 and **limit** (parameter). For example, if limit is 20, it should return the sum of 3, 5, 6, 9, 10, 12, 15, 18, 20.

2. Define a class which represent a book in library. Include following members as data members
   Book number, book name, author, publisher, price, No. of copies issued
   Member function
   (i)   To assign initial value
   (ii)   To issue a book after checking its availability
   (iii) To return a book
   (iv)   To display book information

3. Define a class batsman in cricket team. Include the following members:
   First name, Last name, Runs made, Number of fours, Number of Six

   Member function:
   (i)   To assign initial value
   (ii)   To update runs made
   (iii) To display batsman's information

4. Define a class student with following specifications
    members of class student

   Registration number   integer
   Sname   Char(20)
   Eng, Maths, Science   Float
   Total   Float
   Ctotal()   Function which calculates total marks

5. Generate the following variant of Fibonacci series

   $$0, -1, 1, -2, 3, -5, 8, -13, \cdots$$

6. Define a class employee with the following specifications;
Private members of class employee :
   empno   integer
   ename   String
   basic,hra,da   float
   netpay   float

calculate( )   A method to calculate basic + hra + da with float return type

Public member functions of class employee :
    havedata( )   method to accept values for empno, sname, basic , hra ,da and invoke
    calculate( )   to calculate netpay
    dispdata( )   function to display all the data members on the screen

7. Define a class **Student** for the following specifications :
    Private members of the **Student** are :
        roll _ no integer
        name string
        class _ st string
        marks array of integers of size 5
        percentage float
        calculate that calculates the percentage marks

    Public member methods of the **Student** are :
        readmarks reads mark and invoke the calculate function
        displaymarks prints the data.

7. Define a class TEST in JAVA with following description:
    Private Members
    - TestCode of type integer
    - Description of type string
    - NoCandidate of type integer
    - CenterReqd (number of centers required) of type integer
    - A member method CALCNTR() to calculate and return the number of centers as (NoCandidates/100+1)

    Public Members
    - A method SCHEDULE() to allow user to enter values for TestCode, Description, NoCandidate & call function CALCNTR() to calculate the number of Centres
    - A method DISPTEST() to allow user to view the content of all the data members

8. Define a class which represent a book in library. Include following members as data members
    Book number, book name, author, publisher, price, No. of copies issued
    Member function
    (v)   To assign initial value
    (vi)   To issue a book after checking its availability
    (vii)   To return a book
    (viii) To display book information

9. Define a class batsman in cricket team. Include the following members:

First name, Last name, Runs made, Number of fours, Number of Six

Member function:
(iv)   To assign initial value
(v)   To update runs made
(vi)   To display batsman's information