Assignment on Java

Q1. Write a program to count number of bits of an integer number.

   Note: Use bit wise operator.

Q2. T parity of a binary word is 1 if the number of 1s in the word is odd; otherwise, it is 0. Write a program to compute the parity of a very large number of 64-bits.

Q3. Write a program to swap the ith bit with jth bit of a 64-bits integer number.

Q4. Compute xXy without arithmetic operator.

   Note: Use bitwise operator.

Q5. Write a program to find the reverse of a string.

   Note: Use StringBuffer class

Q6. Write a program to count number of word present in a string.
   Note: Use split function

Q7. Write a program which read a name and date of birth (DOB) create a password which consist of the first two latter of the name and month from DOB.

Q8. Write a program which reads two integer number of any length from user and find it sum.

   Note: Don't use big integer class.

Q9. Write a program which encode the spreadsheet column.

   Example:

       A is encoded to 1

       B is encoded to 2

       …..

       Z is encoded to 26

       ZA is encoded to 27

Q10. Write a program which read a number and base1 and base2 and convert the number of base1 to base2.

Q11. Write a program to revers all word of a sentence.

Q13. Write a program to count the frequency of each digit of a number.

Q14. Write a program to count the frequency of each number present in an array.

Q15. Write a program to count how many prime numbers present in an array.

Q16. Write a program to rotate an integer array.

Q17. Write a program to delete all duplicate present in a sorted array.

Q18. Write a program to merge two sorted array to make a single sorted array.

Q19. Write program to insert an element in an array at specified position.

Q20. Write program to create a class Student having member variable name, rn, age. Add required set, get and constructer to Student class. Crate an array of student object and sort it according to rn in ascending order.

Q21. Create a class Num having an integer array as its member and required set, get and constructor. Add a method to Num class which find the reverse of the array.

Q22. Write a program to demonstrate use of wrapper class.

Q23. Write some program to demonstrate use of valuOf method.

Q24. Write some program to demonstrate use of auto boxing.

Q25. Write some program to demonstrate use of auto unboxing.

Q26. Write some program to demonstrate conversion of base type to object type.

Q27. Write some program to demonstrate conversion of object type to base type.