Sample question for practice

1. Write a java program to check if the difference between two random numbers (generate two random numbers between **10 to 40**) is divisible by 2 or not.
2. Write a program to read three numbers from the keyboard and print the number which is neither larger nor smaller (solve the problem without using **if-else**).
3. Write a program to check whether the given input is **Alphabet** or not.
4. Write a java program to check whether you are eligible to vote or not using **switch cases.**
5. Write a java program to print bonus amounts based on the grade of employee using **switch case**. If grade is 'A' then bonus is 2000, if grade is 'B' then bonus is 1500, if grade is 'C' then bonus is 1000, if grade is 'D' then bonus is 500, otherwise bonus is 100.
6. Write a program to Check whether a character is a vowel or consonant using **switch statement.**
7. Write a program to menu driven program using **switch statement** (Find addition, subtraction, multiplication and division of two integer numbers).
8. Write a java program to generate 10 **random numbers** between 1 to 100.
9. Write a program to find the **maximum** of three numbers using switch statements.
10. Write a program to check whether the given number is an **armstrong number** or not. An Armstrong number is one whose sum of digits raised to the power three equals the number itself. [Ex: 371 is an Armstrong number because 3^3 + 7^3 + 1^3 = 371, ^ indicates power sign]
11. Write a program to check whether the given number is **Buzz number** or not. Buzz number is a special number in Java that ends with digit 7 or divisible by 7. [Ex: 42 is a Buzz number because it is divisible by 7, 107 is a Buzz number because it ends with 7, but 134 is not a Buzz number because it is neither end with 7 nor divisible by 7.]
12. Write a java program to check whether the given number contains an **even number of zeros or not.** [EX: 10205 contains an even number of zeros, but 203004 does not contain an even number of zeros.]
13. Write a java program to check whether the given number is a **spy number** or not. A number is called a spy number if the sum and product of its digits are equal. [132 is spy number because sum of all digit(1+2+3=6) is equal to product of all digit(1*2*3=6).]
14. Write a program to print the first 10 natural numbers which are divisible by **either 4 or 5.**
15. Write a java program to convert a **decimal number to binary number.**

16. Write a java program to count the number of **even digits** of a given number. [EX: 10205 contains 3 even digits, but 70394 contains 3 even digits].
17. Write a Java program to check whether a number is an **Automorphic number** or not. an automorphic number is a number whose square "ends" in the same digits as the number itself. [Ex: 5 is automorphic number because 5^2 = 25, 7 is not automorphic number because 7^2 = 49]
18. Write a Java program to display the first 10 **Fermat numbers**. Assume the first number is 2 of this given series. In the Fermat number series, the next number is generated by a given formula. **Next_number = (current_number - 1)^2 -1.**