

1. Check Sum of Odd Digits

Write a program to read a number , calculate the sum of odd digits (values) present in the given number. Include a class **UserMainCode** with a static method **checkSum** which accepts a positive integer. The return type should be 1 if the sum is odd. In case the sum is even return -1 as output.

Create a class **Main** which would get the input as a positive integer and call the static method **checkSum** present in the UserMainCode. **Input and Output Format:**

Input consists of a positive integer n.

Refer sample output for formatting specifications.

Sample Input 1:

56895

Sample Output 1:

Sum of odd digits is odd.

Sample Input 2:

84228

Sample Output 2:

Sum of odd digits is even.

2. Write a java program to find duplicate elements in an array?

3. Write a java program to find second largest element in an array of integers?

4. Write a java program to find a missing number in an integer array?

5. Money Management

Develop a personal finance application that helps you manage your money wisely.

The application will ask you to enter an amount you earn in this month (Account #0). This income is

divided into 6 sub-accounts which are described below:

- Account #1: NEC - Necessity - 55% of Account #0
- Account #2: FFA - Finance Freedom Account - 10% of Account #0
- Account #3: EDU - Education - 10% of Account #0
- Account #4: LTSS -Long Term Spending Saving - 10% of Account #0
- Account #5: PLAY - 10% of Account #0
- Account #6: GIVE - 5% of Account #0

Here's an example:

Enter your income this month: 5000

Here's how you should manage your money:

NEC: 2750 LTSS: 500

FFA: 500 PLAY: 500

EDU: 500 GIVE: 250

NOTE: Design the money dividing module in a way that is reusable in other applications, e.g. desktop,

web and mobile.