```java
//question:1//
import java.util.*;
import java.util.InputMismatchException;
class Calculator
{

    public void add(float a,float b, float c)
    {
        System.out.println(a+"+"+b+"+"+c+"="+(a+b+c));
    }
    public void add(float a,float b)
    {
        System.out.println(a+"+"+b+"="+(a+b));
    }


    public void subtract(float a,float b, float c)
    {
        System.out.println(a+"-"+b+"-"+c+"="+(a-b-c));
    }
    public void subtract(float a,float b)
    {
        System.out.println(a+"-"+b+"="+(a-b));
    }


    public void product(float a,float b)
    {
        System.out.println(a+"*"+b+"="+(a*b));
    }


    public void division(float a,float b)
    {
        System.out.println(a+"/"+b+"="+(a/b));
    }
}
public class Main
{
    public static void main (String[] args) {
        Calculator cal=new Calculator();
        Scanner sc=new Scanner(System.in);
        System.out.println("Author: ch.madhusai\nSAP ID:51834527");
        try
        {
            System.out.println("1. ADD\n2. SUBTRACt\n3. MULTIPLICATI
            int op=sc.nextInt();
            switch(op)
            {
                case 0:
                    System.out.println("Exit...");
                    System.exit(0);
                    break;
                case 1:
                    System.out.print("Enter operand 1: ");
                    float add1=sc.nextFloat();
                    System.out.print("Enter operand 2: ");
                    float add2=sc.nextFloat();
                    System.out.print("Enter operand 3(if you want. e
                    float add3=sc.nextFloat();
                    if(add3==0)
                    {
                        cal.add(add1, add2);
                    }
                    else
                    {
                        cal.add(add1, add2, add3);
                    }
                    break;
                case 2:
                    System.out.print("Enter operand 1: ");
                    float sub1=sc.nextFloat();
                    System.out.print("Enter operand 2: ");
                    float sub2=sc.nextFloat();
                    System.out.print("Enter operand 3(if you want. e
                    float sub3=sc.nextFloat();
                    if(sub3==0)
                    {
                        cal.subtract(sub1, sub2);
                    }
                    else
                    {
                        cal.subtract(sub1, sub2, sub3);
                    }
                    break;
                case 3:
                    System.out.print("Enter operand 1: ");
                    float mul1=sc.nextFloat();
                    System.out.print("Enter operand 2: ");
                    float mul2=sc.nextFloat();
                    cal.product(mul1,mul2);
                    break;
                case 4:
                    System.out.print("Enter operand 1: ");
                    float div1=sc.nextFloat();
                    System.out.print("Enter operand 2: ");
                    float div2=sc.nextFloat();
                    if(div2==0)
                    {
                        throw new ArithmeticException("Number cannot
                    }
                    cal.division(div1,div2);
                    break;
                default:
                    System.out.println("Invalid choice: ");
            }
        }
        catch(InputMismatchException ime)
        {
            System.out.println("You have entered input of wrong data
        }
        catch(ArithmeticException ae)
        {
            System.out.println(ae.getMessage());
        }
    }
}
```

```
✕  Terminal
```

```
Author: ch.madhusai
SAP ID:51834527
1. ADD
2. SUBTRACt
3. MULTIPLICATION
4. DIVISION
5. EXIT
Enter your choice:
1
Enter operand 1: 23
Enter operand 2: 34
Enter operand 3(if you want. else enter 0): 0
23.0+34.0=57.0

Process finished.
▎
```

```java
1  //question2//
2  public class Main
3  {
4      public static boolean isPalindrome(String string, int low, int hig
5      {
6          if (low >= high) {
7              return true;
8          }
9
10         if (string.charAt(low) != string.charAt(high)) {
11             return false;
12         }
13
14
15         return isPalindrome(string, low + 1, high - 1);
16     }
17
18     public static void main(String[] args)
19     {
20         String string = "madam";
21
22         if (isPalindrome(string, 0, string.length() - 1)) {
23             System.out.println("Author:ch.madhu sai \nSAP ID:51834527")
24             System.out.print("given String is Palindrome");
25         } else {
26             System.out.print("given String is Not Palindrome");
27         }
28     }
}
```

Terminal

```
Author:ch.madhu sai
SAP ID:51834527
given String is Palindrome
Process finished.
```

```java
//question 3//
import java.util.Scanner;
public class Main
{
  public static void main (String[] args)
  {
    System.out.println("Author :ch.madhu sai \n SAP ID:51834527");
    int count=0;
    int rem=0 ;
    Scanner sc=new Scanner(System.in);
    System.out.println("enter a number :");
    int n= sc.nextInt();
    while(n>0)
    {
      rem=n%10;
      if(rem%2!=0)
      {
        count++;
      }
      n=n/10;

    }
    System.out.println("no of odd digits in number are ; "+count);

  }
}
```

Author :ch.madhu sai
 SAP ID:51834527
enter a number :
2
no of odd digits in number are ; 0

Process finished.

```java
//question 5//
import java.util.Arrays;

class Main
{
  public static void swap(int[] arr, int a, int b)
  {
    int temp = arr[a];
    arr[a] = arr[b];
    arr[b] = temp;
  }

  public static void bubbleSort(int[] arr, int m)
  {
    for (int a = 0; a < m - 1; a++) {
      if (arr[a] > arr[a + 1]) {
        swap(arr, a, a + 1);
      }
    }
    if (m - 1 > 1) {
      bubbleSort(arr, m - 1);
    }
  }

  public static void main(String[] args)
  {
    int[] arr = { 5, 1, 7, 9, 8, 0, 2 };

    bubbleSort(arr, arr.length);

    System.out.println("Author:ch.madhu sai\n SAP ID:51834527");
    System.out.println(Arrays.toString(arr));
  }
}
```

```
Author:ch.madhu sai
 SAP ID:51834527
[0, 1, 2, 5, 7, 8, 9]

Process finished.
```

JAVA_QUIZ_DAY_5

Attempts allowed: 1

This quiz opened at Wednesday, 22 July 2020, 3:00 PM

This quiz will close at Wednesday, 22 July 2020, 4:00 PM

Time limit: 30 mins

SUMMARY OF YOUR PREVIOUS ATTEMPTS

State	Marks / 20.00	Grade / 10.00	Review
Finished Submitted Wednesday, 22 July 2020, 3:55 PM	4.00	2.00	

YOUR FINAL GRADE FOR THIS QUIZ IS 2.00/10.00.

No more attempts are allowed

Back to the course