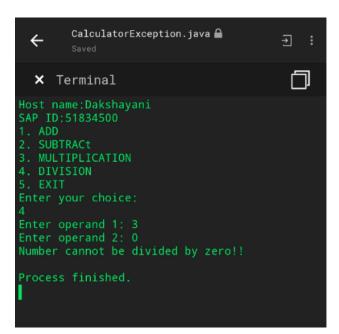
1st question answer

```
CalculatorException.java 🖴
\leftarrow
  import java.util.Scanner;
import java.util.InputMismatchException;
  class CalculatorException
       public void add(float a,float b, float c)
            System.out.println(a+"+"+b+"+"+c+"="+(a+b+
       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-
       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) {
   CalculatorException cal=new CalculatorExce
   Scanner sc=new Scanner(System.in);
   System.out.println("Host name:Dakshayani\r");
                 System.out.println("1. ADD\n2. SUBTRA
8
                 int op=sc.nextInt();
```

```
CalculatorException.java 🖴
   switch(op)
                System.out.println("Exit...");
System.exit(0);
                System.out.print("Enter operand 1: ");
float add1=sc.nextFloat();
                System.out.print('Enter Ope
float add2=sc.nextFloat();
float add2=sc.nextFloat();
                float add3=sc.nextFloat();
                if(add3==0)
                      cal.add(add1, add2);
                       cal.add(add1, add2, add3);
              se 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
                float sub3=sc.nextFloat();
                if(sub3==0)
                      cal.subtract(sub1, sub2);
                      cal.subtract(sub1, sub2, sub3);
                System.out.print("Enter operand 1: ");
float mul1=sc.nextFloat();
System.out.print("Enter operand 2: ");
                System.out.print("Enter ope
float mul2=sc.nextFloat();
                cal.product(mul1,mul2);
8
                System.out.print("Enter operand 1: ");
```

```
CalculatorException.java 🖺
\leftarrow
                   if(sub3==0)
                        cal.subtract(sub1, sub2);
                        cal.subtract(sub1, sub2, sub3);
                   System.out.print("Enter operand 1 float mul1=sc.nextFloat();
System.out.print("Enter operand 2
                   System.out.print("Enter ope
float mul2=sc.nextFloat();
                   cal.product(mul1,mul2);
                   System.out.print("Enter operand 1 float div1=sc.nextFloat();
                    System.out.print("
                   float div2=sc.nextFloat();
                    if(div2==0)
                        throw new ArithmeticException(
                   cal.division(div1,div2);
                   System.out.println("Invalid choice
     catch(InputMismatchException ime)
          System.out.println("You have entered input
     catch(ArithmeticException ae)
          System.out.println(ae.getMessage());
```



2nd question and answer



```
PalindromeStringRecurrsion.java 

ublic class PalindromeStringRecurrsion

public static boolean isPalindrome(String string {
    if (low >= high) {
        return true;
    }

    if (string.charAt(low) != string.charAt(high;
        return isPalindrome(string, low + 1, high - 1)
    }

public static void main(String[] args)

{
    String string = "madam";
    if (isPalindrome(string, 0, string.length() - System.out.println("Host name:Dakshayani\ System.out.print("given String is Palindred } else {
        System.out.print("given String is Not Paled }
    }

X Terminal

Host name:Dakshayani
SAP ID:51834500
given String is Palindrome
Process finished.
```

3rd question and answer

5th question and answer

```
BubbleSortt.java 🖴
   \leftarrow
   import java.util.Arrays;
class BubbleSortt

         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 = { 24,38,21,58,45,10,54};
             bubbleSort(arr, arr.length);
             System.out.println("Host name:Dakshayani\r
System.out.println(Arrays.toString(arr));
    × Terminal
Process finished.
```

Quiz marks

Today I have BI so I didn't attempt the quiz