

1)

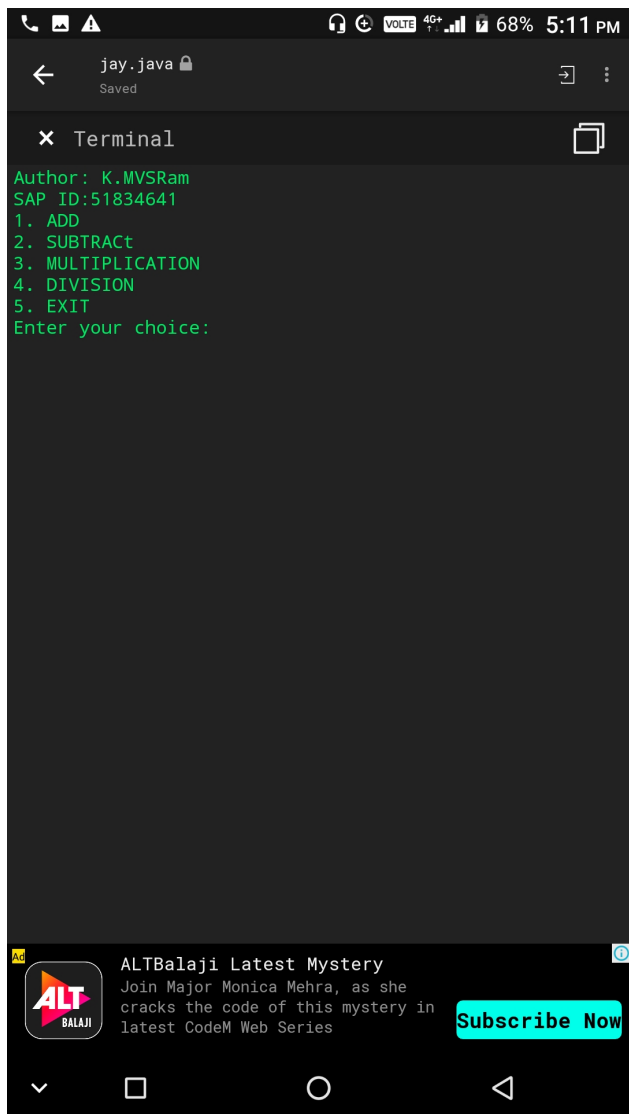
```
jay.java
Saved

1  port java.util.Scanner;
2  port java.util.InputMismatchException;
3  ass Calculator
4
5
6  public void add(float a,float b, float c)
7  {
8      System.out.println(a+"*"+b+"*"+c+"="+a+b+c);
9  }
10 public void add(float a,float b)
11 {
12     System.out.println(a+"*"+b+"="+a+b);
13 }
14
15
16 public void subtract(float a,float b, float c)
17 {
18     System.out.println(a+"-"+b+"-"+c+"="+a-b-c);
19 }
20 public void subtract(float a,float b)
21 {
22     System.out.println(a+"-"+b+"="+a-b);
23 }
24
25
26 public void product(float a,float b)
27 {
28     System.out.println(a+"*"+b+"="+a*b);
29 }
30
31
32 public void division(float a,float b)
33 {
34     System.out.println(a+"/"+b+"="+a/b);
35 }
36
37 blic class Main
38
39 public static void main (String[] args) {
40     Calculator cal=new Calculator();
41     Scanner sc=new Scanner(System.in);
42     System.out.println("Author: K.MVSRam \nSAP ID:51834641");
43     try
44     {
45         System.out.println("1. ADD\n2. SUBTRACT\n3. MULTIPLIC
46         int op=sc.nextInt();
47         switch(op)
48         {
49             case 1:
50                 System.out.println("Exit...");
51                 System.exit(0);
52             case 2:
53                 System.out.println("Exit...");
54                 System.exit(0);
55             case 3:
56                 System.out.println("Exit...");
57                 System.exit(0);
58             default:
59                 System.out.println("Invalid input");
60                 System.exit(0);
61         }
62     }
63     catch (Exception e)
64     {
65         System.out.println("Invalid input");
66         System.exit(0);
67     }
68 }
```

```
44 {
45     System.out.println("1. ADD\n2. SUBTRACT\n3. MULTIPLIC
46     int op=sc.nextInt();
47     switch(op)
48     {
49         case 0:
50             System.out.println("Exit...");
51             System.exit(0);
52             break;
53         case 1:
54             System.out.print("Enter operand 1: ");
55             float add1=sc.nextFloat();
56             System.out.print("Enter operand 2: ");
57             float add2=sc.nextFloat();
58             System.out.print("Enter operand 3(if you want
59             float add3=sc.nextFloat();
60             if(add3==0)
61             {
62                 cal.add(add1, add2);
63             }
64             else
65             {
66                 cal.add(add1, add2, add3);
67             }
68             break;
69         case 2:
70             System.out.print("Enter operand 1: ");
71             float sub1=sc.nextFloat();
72             System.out.print("Enter operand 2: ");
73             float sub2=sc.nextFloat();
74             System.out.print("Enter operand 3(if you want
75             float sub3=sc.nextFloat();
76             if(sub3==0)
77             {
78                 cal.subtract(sub1, sub2);
79             }
80             else
81             {
82                 cal.subtract(sub1, sub2, sub3);
83             }
84             break;
85         case 3:
86             System.out.print("Enter operand 1: ");
87             float mul1=sc.nextFloat();
88             System.out.print("Enter operand 2: ");
89             float mul2=sc.nextFloat();
90             cal.product(mul1,mul2);
91             break;
92     }
```

```
74      System.out.print("Enter operand 3(if you want  
75      float sub3=sc.nextFloat());  
76      if(sub3==0)  
77      {  
78          cal.subtract(sub1, sub2);  
79      }  
80      else  
81      {  
82          cal.subtract(sub1, sub2, sub3);  
83      }  
84      break;  
85      case 3:  
86          System.out.print("Enter operand 1: ");  
87          float mul1=sc.nextFloat();  
88          System.out.print("Enter operand 2: ");  
89          float mul2=sc.nextFloat();  
90          cal.product(mul1,mul2);  
91          break;  
92      case 4:  
93          System.out.print("Enter operand 1: ");  
94          float div1=sc.nextFloat();  
95          System.out.print("Enter operand 2: ");  
96          float div2=sc.nextFloat();  
97          if(div2==0)  
98          {  
99              throw new ArithmeticException("Number can  
100          }  
101          cal.division(div1,div2);  
102          break;  
103      default:  
104          System.out.println("Invalid choice: ");  
105      }  
106  }  
107  catch(InputMismatchException ime)  
108  {  
109      System.out.println("You have entered input of wrong d  
110  }  
111  catch(ArithmeticException ae)  
112  {  
113      System.out.println(ae.getMessage());  
114  }  
115  }  
116  }
```





2)



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jay.java Saved

```
1 import java.util.*;
2 public class Main
3 {
4     public static void main (String[] args)
5     {
6         System.out.println("Author :K.MVSRam \n SAP ID:51834641");
7         int count=0;
8         int rem=0 ;
9         Scanner sc=new Scanner(System.in);
10        System.out.println("enter a number :");
11        int n= sc.nextInt();
12        while(n>0)
13        {
14            rem=n%10;
15            if(rem%2!=0)
16            {
17                count++;
18            }
19            n=n/10;
20        }
21        System.out.println("no of odd digits in number are ; "+count);
22    }
23 }
24
25 }
```

jay.java Saved

```
1 public class Main
2 {
3     public static boolean isPalindrome(String string, int low, int high)
4     {
5         if (low >= high) {
6             return true;
7         }
8         if (string.charAt(low) != string.charAt(high)) {
9             return false;
10        }
11        return isPalindrome(string, low + 1, high - 1);
12    }
13 }
14
15 public static void main(String[] args)
16 {
17     String string = "madam";
18
19     if (isPalindrome(string, 0, string.length() - 1)) {
20         System.out.println("Author:K.MVSRam \nSAP ID:51834641");
21         System.out.print("given String is Palindrome");
22     } else {
23         System.out.print("given String is Not Palindrome");
24     }
25 }
26
27 }
```

Terminal

Author :K.MVSRam  
SAP ID:51834641  
enter a number :

Terminal

Author:K.MVSRam  
SAP ID:51834641  
given String is Palindrome  
Process finished.

3)

Edit with WPS Of fice

jay.java Saved

```
1 import java.util.*;
2 public class Main
3 {
4     public static void main (String[] args)
5     {
6         System.out.println("Author :K.MVSRam \n SAP ID:51834641");
7         int count=0;
8         int rem=0 ;
9         Scanner sc=new Scanner(System.in);
10        System.out.println("enter a number :");
11        int n= sc.nextInt();
12        while(n>0)
13        {
14            rem=n%10;
15            if(rem%2!=0)
16            {
17                count++;
18            }
19            n=n/10;
20        }
21        System.out.println("no of odd digits in number are ; "+count);
22    }
23 }
24 }
25 }
```

Terminal

```
Author :K.MVSRam
SAP ID:51834641
enter a number :
```

