

*I Cheran kumar*

*Java 1*

*Sap id : 51834769*

*Answers.....*

*2)*

*public class Main*

*{*

*public static boolean isPalindrome(String string, int low, int high)*

*{*

*if (low >= high) {*

*return true;*

*}*

*if (string.charAt(low) != string.charAt(high)) {*

*return false;*

*}*

*return isPalindrome(string, low + 1, high - 1);*

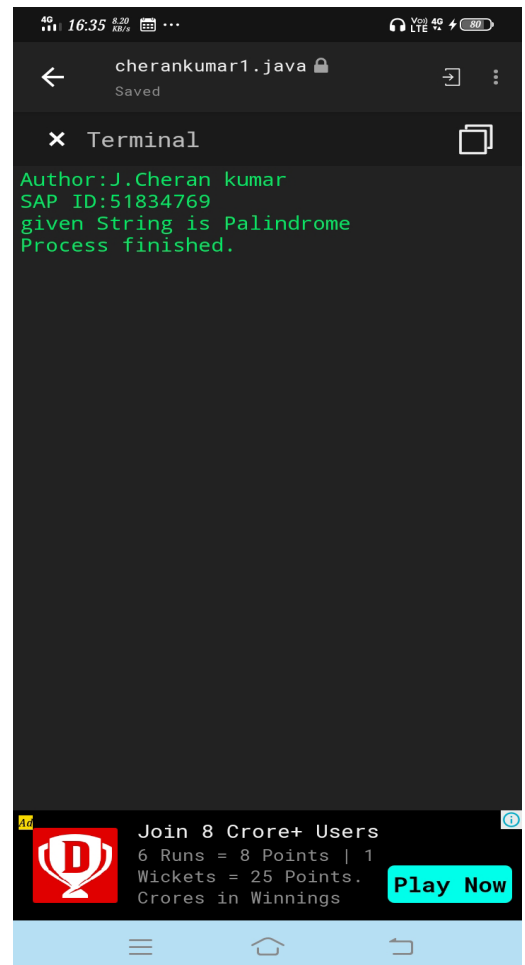
*}*

*public static void main(String[] args)*

*{*

*String string = "madam";*

```
if (isPalindrome(string, 0, string.length() - 1)) {  
    System.out.println("Author:J.Cheran kumar \nSAP ID:51834769");  
    System.out.print("given String is Palindrome");  
} else {  
    System.out.print("given String is Not Palindrome");  
}  
}  
}
```



3)

```
import java.util.*;  
  
public class Main
```

```

{
    public static void main (String[] args)
    {
        System.out.println("Author :J.Cheran kumar \n SAP ID:51834769");

        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);

    }
}

```

The screenshot shows a mobile application interface with a terminal window titled 'cherankumar1.java'. The terminal output is as follows:

```

Author :J.Cheran kumar
SAP ID:51834769
enter a number :
837424
no of odd digits in number are ; 2
Process finished.

```

At the bottom of the screen, there is an advertisement for 'Play Rummy & Win Upto 20 Lakh' with an 'Open' button.

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]) {
```

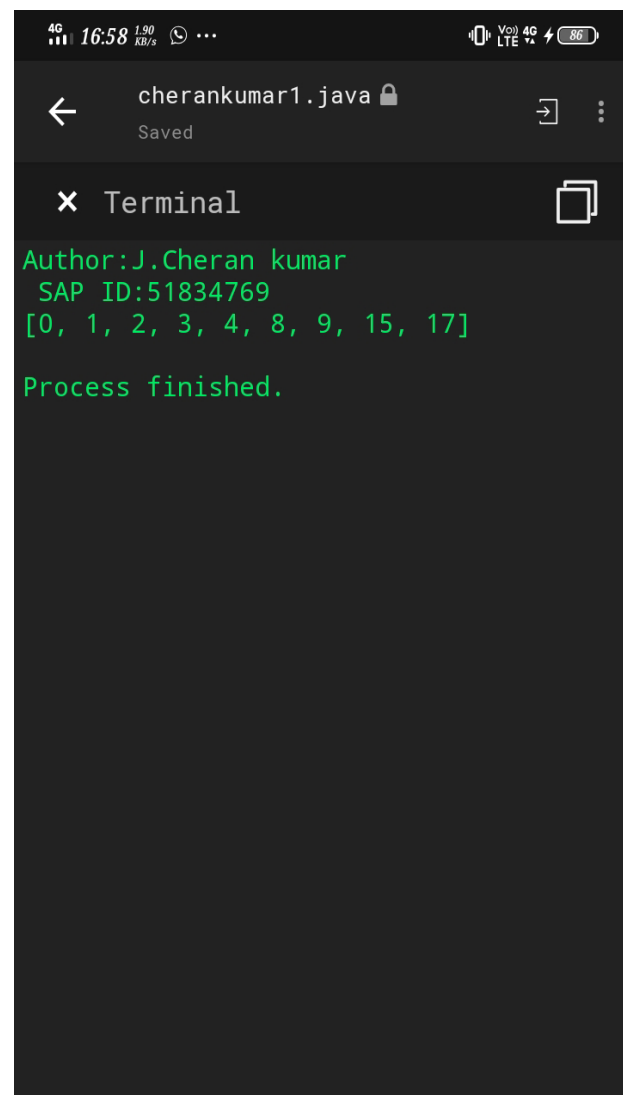
```
                swap(arr, a, a + 1);
```

```
            }
```

```
        }
```

```
        if (m - 1 > 1) {
```

```
            bubbleSort(arr, m - 1);
```



The screenshot shows a mobile terminal window with a dark background. At the top, the status bar displays '4G', signal strength, time '16:58', speed '1.90 KB/s', and battery level '86%'. The terminal title bar shows a back arrow, the filename 'cherankumar1.java' with a lock icon, and a 'Saved' status. Below the title bar, there is a tab labeled 'Terminal' with a close button and a window icon. The terminal output is in green text and shows: 'Author: J.Cheran kumar', 'SAP ID: 51834769', an array '[0, 1, 2, 3, 4, 8, 9, 15, 17]', and 'Process finished.'.

```
4G 16:58 1.90 KB/s ... 4G LTE 86%
cherankumar1.java Saved
Terminal
Author: J.Cheran kumar
SAP ID: 51834769
[0, 1, 2, 3, 4, 8, 9, 15, 17]
Process finished.
```

```
    }  
}  
  
public static void main(String[] args)  
{  
    int[] arr = { 15, 1, 17, 4, 9, 8, 3, 0, 2 };  
  
    bubbleSort(arr, arr.length);  
  
    System.out.println("Author:J.Cheran kumar\n SAP ID:51834769");  
    System.out.println(Arrays.toString(arr));  
}  
}
```

**Marks : 6.67**

