

Assignment:

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: T.vyjayanthi \nSAP ID:51834774");  
            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 : T.vyjayanthi \n SAP ID:51834774");  
        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);
```

```
}
```

```
}
```

```
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:T.vyjayanthi\n SAP ID:51834774");
    System.out.println(Arrays.toString(arr));
}
}
```