```java
import java.lang.Math;
public class Main
{
    public static void main(String[] args)
    {
        char ch=' ';
        for(int i=4;i>=1;i--)
        {
            int k=(int)Math.pow(2,i-1);
            if(i==4)
                ch='*';
            else if(i==3)
                ch='&';
            else if(i==2)
                ch='%';
            for(int j=i;j<=4;j++)
            {
System.out.println("Author:M.Hema Vardhini");
System.out.println("SAP ID:51834505");
                System.out.print(" ");
            }
            for(int j=1;j<=k+2;j++)
            {
                if(j==1 || j==k+2 && i!=1)
                {
                    System.out.print("#");
                }
                else if(i!=1)
                {
                    System.out.print(ch);
                }
            }
            System.out.println();
        }

    }
}
```

```
Author:M.Hema Vardhini
SAP ID:51834505
  #*********#
Author:M.Hema Vardhini
SAP ID:51834505
  Author:M.Hema Vardhini
SAP ID:51834505
  #&&&&#
Author:M.Hema Vardhini
SAP ID:51834505
  Author:M.Hema Vardhini
SAP ID:51834505
  Author:M.Hema Vardhini
SAP ID:51834505
  #%%#
Author:M.Hema Vardhini
SAP ID:51834505
  Author:M.Hema Vardhini
SAP ID:51834505
  Author:M.Hema Vardhini
SAP ID:51834505
  Author:M.Hema Vardhini
SAP ID:51834505
  #

Process finished.
```

```java
import java.util.Scanner;
public class Ascending_Order
{
    public static void main(String[] args)
    {
        int n, temp;
        Scanner s = new Scanner(System.in);
      System.out.println("Author :M.Hema Vardhini");
System.out.println("SAP ID:51834505"); System.out.print("Enter no. of elements you want in array:
        n = s.nextInt();
        int a[] = new int[n];
        System.out.println("Enter all the elements:");
        for (int i = 0; i < n; i++)
        {
            a[i] = s.nextInt();
        }
      r (int i = 0; i < n; i++)

            for (int j = i + 1; j < n; j++)
```

Share ⬆

```java
17      for (int i = 0; i < n; i++)
18      {
19          for (int j = i + 1; j < n; j++)
20          {
21              if (a[i] > a[j])
22              {
23                  temp = a[i];
24                  a[i] = a[j];
25                  a[j] = temp;
26              }
27          }
28      }
29
30      System.out.print("Ascending Order:");
31      for (int i = 0; i < n - 1; i++)
32      {
            System.out.print(a[i] + ",");
```

```java
26              }
27            }
28          }
29
30          System.out.print("Ascending Order:");
31          for (int i = 0; i < n - 1; i++)
32          {
33              System.out.print(a[i] + ",");
34          }
35          System.out.print(a[n - 1]);
36      }
37 }
```

```
Author :M.Hema Vardhini
SAP ID:51834505
Enter no. of elements you want in array:5
Enter all the elements:
25
5
8
2
11
Ascending Order:2,5,8,11,25
Process finished.
```

```java
import java.util.Arrays;

public class MergeArrayProgram
{
    private static int[] mergeArray(int[] arrayA, int[] arrayB)
    {
        int[] mergedArray = new int[arrayA.length + arrayB.length];

        int i=0, j=0, k=0;

        while (i < arrayA.length)
        {
            mergedArray[k] = arrayA[i];
            i++;
            k++;
        }
```

```java
        while (j < arrayB.length)
        {
            mergedArray[k] = arrayB[j];
            j++;
            k++;
        }

        Arrays.sort(mergedArray);

        return mergedArray;
    }

    public static void main(String[] args)
    {
        int[] arrayA = new int[] {12, -7, 18, 9, 37, -1, 21};

        int[] arrayB = new int[] {27, 8, 71, -9, 18};
```

```java
34          int[] arrayB = new int[] {27, 8, 71, -9, 18};

35

36          int[] mergedArray = mergeArray(arrayA, arrayB);

37

38 System.out.println("Author:M.Hema Vardhini");
39 System.out.println("SAP ID:51834505");
40 System.out.println("Array A : "+Arrays.toString(arrayA));

41

42          System.out.println("Array B : "+Arrays.toString(arrayB));

43

44          System.out.println("Merged Array : "+Arrays.toString(mergedArray));
45      }
46 }
```

```
Author:M.Hema Vardhini
SAP ID:51834505
Array A : [12, -7, 18, 9, 37, -1, 21]
Array B : [27, 8, 71, -9, 18]
Merged Array : [-9, -7, -1, 8, 9, 12, 18, 18, 21, 27, 37, 71]

Process finished.
```

```java
public class WordCount {
    static int wordcount(String string)
    {
        int count=0;

        char ch[]= new char[string.length()];
        for(int i=0;i<string.length();i++)
        {
            ch[i]= string.charAt(i);
            if( ((i>0)&&(ch[i]!=' ')&&(ch[i-1]==' ')) || ((ch[0]!=' ')&&(i==0)) )
                count++;
        }
        return count;
    }
    public static void main(String[] args) {
        String string ="    India Is My Country";
        .println("SAP ID:51834505");
```

```
                  if( ((i>0)&&(ch[i]!=' ')&&(ch[i-1]==' ')) || ((ch[0]!=' ')&&(i==0)) )
                    count++;
                }
            return count;
        }
    public static void main(String[] args) {
        String string ="      India Is My Country";
System.out.println("SAP ID:51834505");
System.out.println("Author:M.Hema vardhini");        System.out.println(wordcount(string) + " words
    }
}
```

```
SAP ID:51834505
Author:M.Hema vardhini
4 words.

Process finished.
```