

```
1 import java.util.Arrays;
2 import java.util.List;
3 import java.util.PriorityQueue;
4
5 class Main
6 {
7     public static int findKthSmallest(List<Integer> I, int x)
8     {
9         PriorityQueue<Integer> pq = new PriorityQueue<>(I);
10
11         while (--x > 0) {
12             pq.poll();
13         }
14
15         return pq.peek();
16     }
```

```
18 public static void main(String[] args)
19 {
20     List<Integer> I = Arrays.asList(7, 4, 6, 3, 9, 1);
21     int x = 4;
22
23     System.out.println("Author:M.Hema Vardhini");
24     System.out.println("SAP ID:51834505");
25     System.out.println("the 4th smallest element in the array is " +
26                         findKthSmallest(I, x));
27 }
28 }
```

```
Author:M.Hema Vardhini  
SAP ID:51834505  
the 4th smallest element in the array is 6  
Process finished.
```

```
1  import java.util.*;
2
3  public class Main {
4
5  static void reverseWords(String str)
6  {
7      System.out.println("Author:M.Hema Vardhini");
8      System.out.println("SAP ID:51834505");
9      Stack<Character> st=new Stack<Character>();
10
11     for (int i = 0; i < str.length(); ++i) {
12         if (str.charAt(i) != ' ')
13             st.push(str.charAt(i));
14
15         else {
16             while (st.empty() == false) {
17                 i.out.print(st.pop());
```

```

17         System.out.print(st.pop());
18
19     }
20     System.out.print("\n");
21 }
22 }
23
24 while (st.empty() == false) {
25     System.out.print(st.pop());
26 }
27 }
28 }
29
30 public static void main(String[] args)
31 {
32     String str = "Education is the most powerful weapon";
33     reverseWords(str);

```

```
25     System.out.print(st.pop());
26
27 }
28 }
29
30 public static void main(String[] args)
31 {
32     String str = "Education is the most powerful weapon";
33     reverseWords(str);
34 }
35 }
```


Author:M.Hema Vardhini
SAP ID:51834505
noitacudE si eht tsom lufrewop nopaew
Process finished.

```
1  import java.util.*;
2  class Pavan{
3      public static void main(String args[]){
4          Scanner sc=new Scanner(System.in);
5          System.out.println("M.Hema Vardhini");
6          System.out.println("SAP ID:51834505");
7          System.out.println("enter the n");
8          int n=sc.nextInt();
9          for(int i=1;i<n+2;i++){
10             for(int j=1;j<i;j++){
11                 System.out.print(j+",");
12             }
13             System.out.print(" ");
14         }
15     }
16
17
18 }
```


M.Hema Vardhini

SAP ID:51834505

enter the n

5

1, 1,2, 1,2,3, 1,2,3,4, 1,2,3,4,5,

Process finished.

```
import java.util.*;
interface Laptop{
    abstract public void area();
    abstract public void company();
    abstract public void ram();
}
class Your_name implements Laptop{
    public void area(){
        System.out.println("100 sq.in");
    }
    public void company(){
        System.out.println("company is asus");
    }
    public void ram(){
        System.out.println("12 gb ram");
    }

    public static void main(String[] args){
        Your_name o=new Your_name();
        System.out.println("M.Hema Vardhini");
        System.out.println("SAP ID:51834505");
        o.area();
        o.company();
        o.ram();
    }
}
```


M.Hema Vardhini

SAP ID:51834505

100 sq.in

company is asus

12 gb ram

Process finished.