

*J Cheran kumar*

*Java 1*

*Sap id : 51834769*

*Answers.....*

*1)*

*import java.util.Arrays;*

*import java.util.List;*

*import java.util.PriorityQueue;*

*class Main*

*{*

*public static int findKthSmallest(List<Integer> I, int x)*

*{*

*PriorityQueue<Integer> pq = new PriorityQueue<>(I);*

*while (--x > 0) {*

*pq.poll();*

*}*

*return pq.peek();*

*}*

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

*{*

```
List<Integer> I = Arrays.asList(7, 4, 6, 3, 9, 1);
```

```
int x = 4;
```

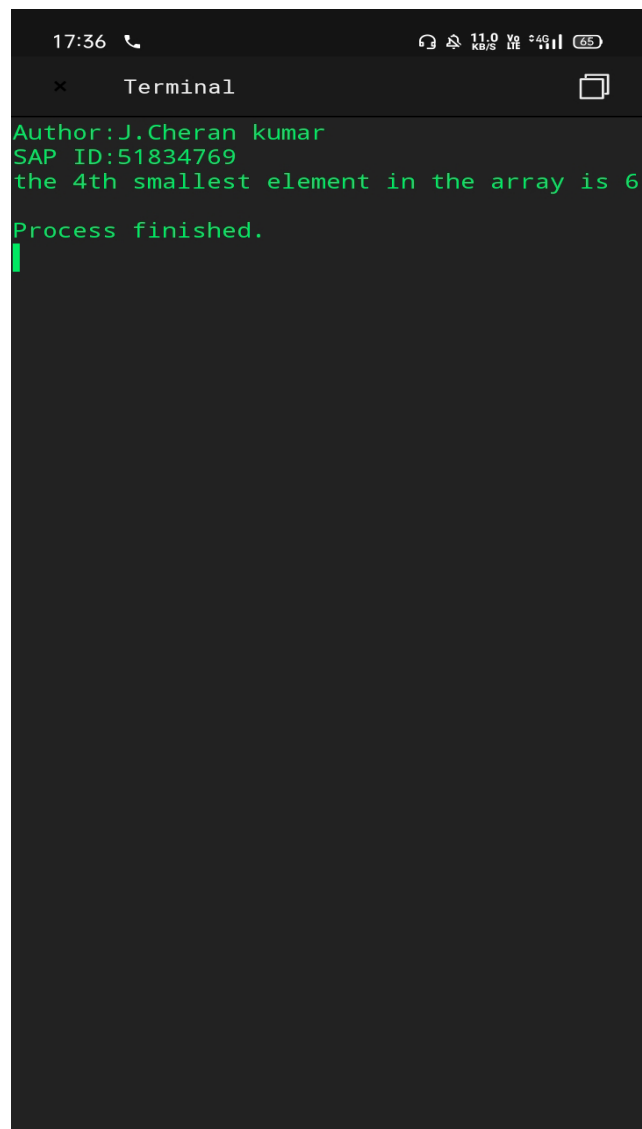
```
System.out.println("Author:J. Cheran kumar\nSAP ID:51834769");
```

```
System.out.println("the 4th smallest element in the array is " +
```

```
findKthSmallest(I, x));
```

```
}
```

```
}
```

A screenshot of a mobile terminal window. The status bar at the top shows the time 17:36, signal strength, 11.0 KB/s, 4G, and 65% battery. The terminal title is "Terminal". The output of the program is displayed in green text: "Author:J.Cheran kumar", "SAP ID:51834769", "the 4th smallest element in the array is 6", and "Process finished." followed by a green cursor line.

```
17:36 11.0 KB/s 4G 65%
Terminal
Author:J.Cheran kumar
SAP ID:51834769
the 4th smallest element in the array is 6
Process finished.
```

2)

```
import java.util.*;

class Pavan{

    public static void main(String args[]){

        Scanner sc=new Scanner(System.in);

        System.out.println("J. Cheran kumar\n51834769");

        System.out.println("enter the n");

        int n=sc.nextInt();

        for(int i=1;i<n+2;i++){

            for(int j=1;j<i;j++){

                System.out.print(j+",");

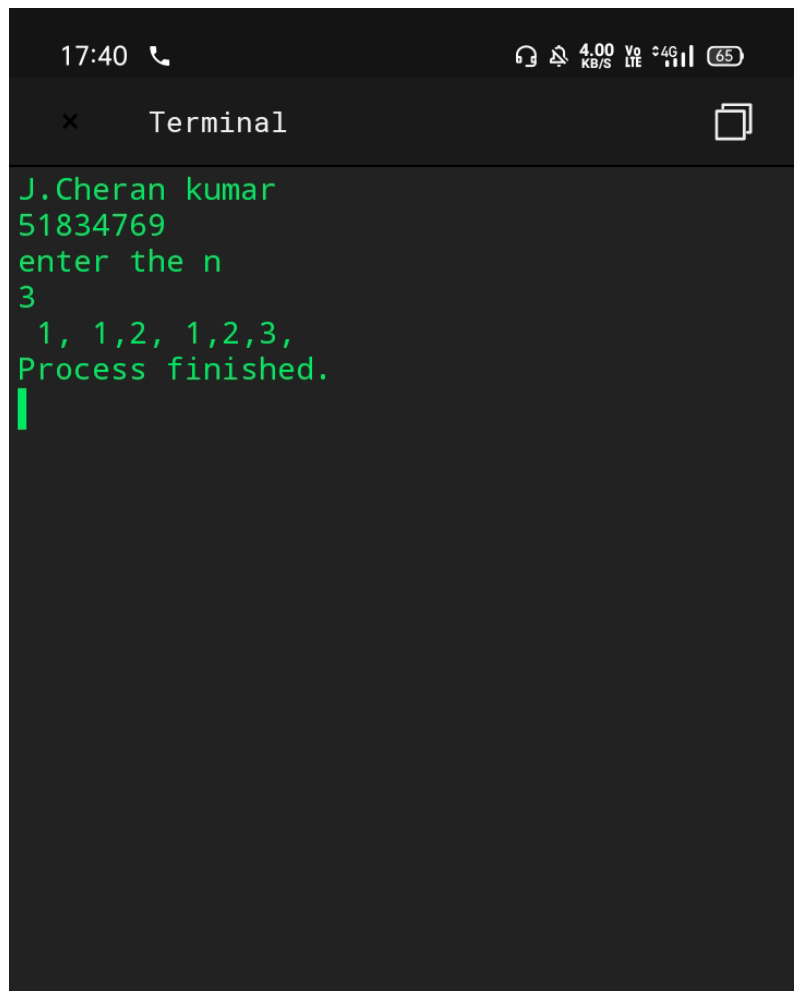
            }

            System.out.print(" ");

        }

    }

}
```



```
17:40 17:40 4.00 KB/S Vo 4G 65
Terminal
J.Cheran kumar
51834769
enter the n
3
1, 1,2, 1,2,3,
Process finished.
```

3)

```
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("I. Cheran kumar\n51834769");

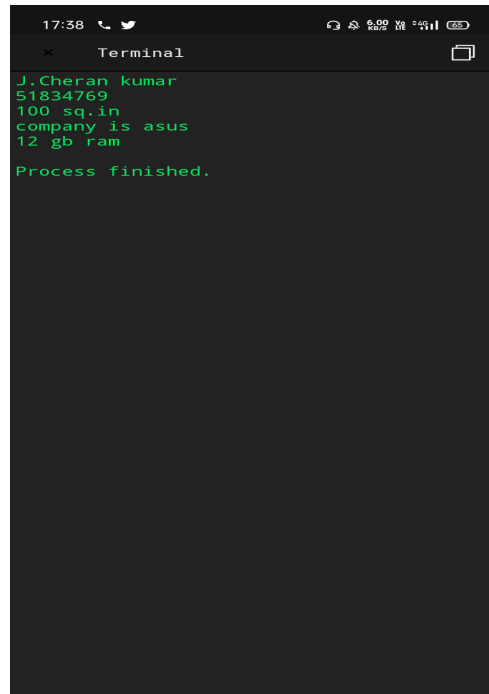
    }

}
```

```
o.area();

o.company();

o.ram();
}
}
```

A screenshot of a terminal window with a dark background. The title bar at the top says "Terminal" and shows system icons on the right. The output text is displayed in green. It reads: "J.Cheran kumar", "51834769", "100 sq.in", "company is asus", "12 gb ram", and "Process finished." on separate lines.

```
17:38
Terminal
J.Cheran kumar
51834769
100 sq.in
company is asus
12 gb ram
Process finished.
```

5)

```
import java.util.*;

public class Main {

    static void reverseWords(String str)
    {

        System.out.println("Author:J. Cheran kumar\nSAP ID:51834769");

        Stack<Character> st=new Stack<Character>();

        for (int i = 0; i < str.length(); ++i) {

            if (str.charAt(i) != ' ')

                st.push(str.charAt(i));
```

```

        else {

            while (st.empty() == false) {

                System.out.print(st.pop());

            }

            System.out.print(" ");

        }

    }

    while (st.empty() == false) {

        System.out.print(st.pop());

    }

}

public static void main(String[] args)
{
    String str = "I want my bike back";

    reverseWords(str);

}

}

```

Marks : 14

