

July-29 Assignment

Question 1:

```
import java.util.Arrays;

import java.util.List;

import java.util.PriorityQueue;
```

```
class Main
```

```
{

    public static int findKthSmallest(List<Integer> l, int x)
    {

        PriorityQueue<Integer> pq = new PriorityQueue<>(l);

        while (--x > 0) {

            pq.poll();

        }

        return pq.peek();

    }

    public static void main(String[] args)

    {

        List<Integer> l = Arrays.asList(7, 14, 9, 31, 9, 13);

        int x = 4;
```

```
        System.out.println("Author:T. ISWARYA\nSAP ID:51834773");

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

                                findKthSmallest(l, x));

    }

}
```

Output:

```
× Terminal
Author:T. ISWARYA
SAP ID:51834773
the 4th smallest element in the array is 13
Process finished.
```

Question 5:

```
import java.util.*;

public class Main {

    static void reverseWords(String str)
    {
        System.out.println("Author:T. Iswarya\nSAP ID:51834773");
        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 = "Hello Everyone";  
    reverseWords(str);  
}  
}
```

Output:

```
x    Terminal    [icon]  
Author:T. Iswarya  
SAP ID:51834773  
olleH enoyrevE  
Process finished.
```

Question 2:

```
import java.util.*;

class Pavan{

    public static void main(String args[]){

        Scanner sc=new Scanner(System.in);

        System.out.println("T. Iswarya\n 51834773");

        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(" ");

        }

    }

}
```

}

Output:

```
× Terminal
T. Iswarya
51834773
enter the n
6
1, 1,2, 1,2,3, 1,2,3,4, 1,2,3,4,5, 1,2,3,4,5,6,
Process finished.
```

Question 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("T. ISWARYA\n 51834773");  
  
    o.area();  
    o.company();  
    o.ram();  
}  
}
```

Output:

```
× Terminal   
T. ISWARYA  
51834773  
100 sq.in  
company is asus  
12 gb ram  
  
Process finished.
```