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> 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, 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 " +

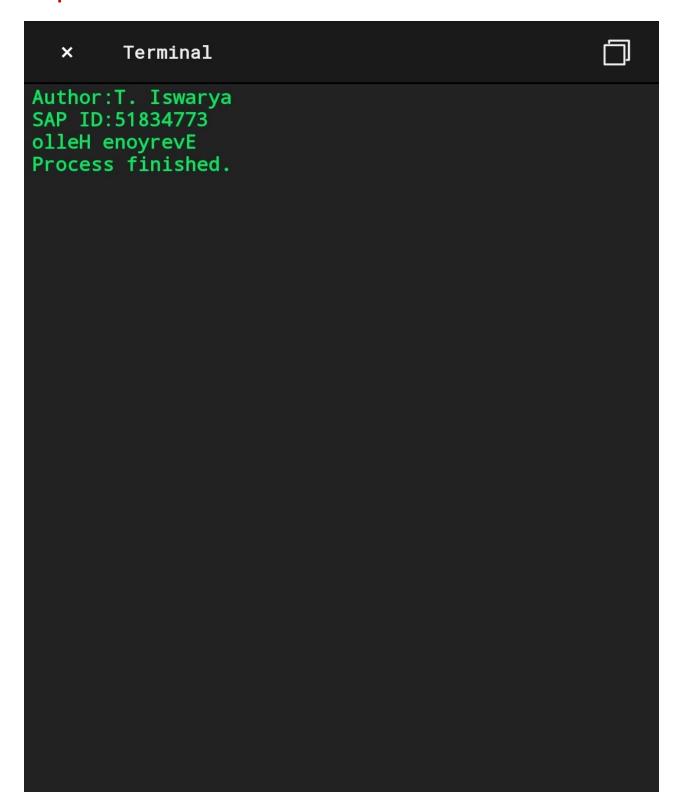
findKthSmallest(I, x));

}
```

```
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);
}
}
```



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(" ");
 }
```

```
Terminal
   ×
T. Iswarya
51834773
enter the n
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();
}
```

