QUESTION 1:

```java
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(123, 456, 67, 8, 9, 12);

                int x = 4;


                System.out.println("Program by Manasa\nJava1\nSAP ID:51834754");

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

findKthSmallest(I, x));

        }

}

```java
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>
8      {
9          PriorityQueue<Integer> pq = new PriorityQueu
10
11         while (--x > 0) {
12             pq.poll();
13         }
14
15         return pq.peek();
16     }
17
18     public static void main(String[] args)
19     {
20         List<Integer> I = Arrays.asList(123, 456, 67
21         int x = 4;
22
23         System.out.println("Program by Manasa\nJava1
24         System.out.println("The 4th smallest element
25                         findKthSmallest(I
26     }
27 }
```

×   Terminal   ⬜

Program by Manasa
Java1
SAP ID:51834754
The 4th smallest element in the array is 67

Process finished.

||| ◯   ‹

QUESTION 2 :

```java
import java.util.*;
class Main{
 public static void main(String args[]){
   Scanner sc=new Scanner(System.in);
   System.out.println("Program by Manasa\nJava1\nSap:51834754");
   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(" ");
   }
 }


}
```

```java
import java.util.*;
class Main{
   public static void main(String args[]){
      Scanner sc=new Scanner(System.in);
      System.out.println("Program by Manasa\nJava1\nS
      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

```
Program by Manasa
Java1
Sap:51834754
enter the n
3
1, 1,2, 1,2,3,
Process finished.
```

Question 3:

import java.util.*;

interface Laptop{

  abstract public void area();

  abstract public void company();

  abstract public void ram();

}

```java
class Your_name implements Laptop{
 public void area(){
   System.out.println("100 sq.in");
 }
 public void company(){
   System.out.println("company is Dell");
 }
 public void ram(){
   System.out.println("64 gb ram");
 }


 public static void main(String[] args){
   Your_name o=new Your_name();
System.out.println("Program By Manasa\nJava1\nSap:51834754");


   o.area();
   o.company();
   o.ram();
 }
}
```

```java
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 Dell");
  }
  public void ram(){
     System.out.println("64 gb ram");
  }

 public static void main(String[] args){
    Your_name o=new Your_name();
System.out.println("Program By Manasa\nJava1\nSap:5
    o.area();
    o.company();
    o.ram();
 }
}
```

×   Terminal   🗗

```
Program By Manasa
Java1
Sap:51834754
100 sq.in
company is Dell
64 gb ram

Process finished.
```

||| ○   <

QUESTION 5:

import java.util.*;

public class Main {

```java
static void reverseWords(String str)
{
        System.out.println("Program by Manasa\nJava1\nSAP ID:51834754");
        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(" ");
                }


QUIZ    }


        while (st.empty() == false) {
                System.out.print(st.pop());


        }
}
```

public static void main(String[] args)

{

String str = "Hi how are you? Hope you are doing well:)";

        reverseWords(str);

}

}

```
1  import java.util.*;
2
3  public class Main {
4
5  static void reverseWords(String str)
6  {
7      System.out.println("Program by Manasa\nJava1\nS
8      Stack<Character> st=new Stack<Character>();
9
10     for (int i = 0; i < str.length(); ++i) {
11         if (str.charAt(i) != ' ')
12             st.push(str.charAt(i));
13
14         else {
15             while (st.empty() == false) {
16                 System.out.print(st.pop());
17
18             }
19             System.out.print(" ");
20         }
21     }
22
23     while (st.empty() == false) {
24         System.out.print(st.pop());
25
26     }
27 }
28
29 public static void main(String[] args)
30 {
31 String str = "Hi how are you? Hope you are doing we
32     reverseWords(str);
33 }
34 }
```

```
×    Terminal                              ⎙

Program by Manasa
Java1
SAP ID:51834754
iH woh era ?uoy epoH uoy era gniod ):llew
Process finished.
```

QUIZ MARKS :15