

Lab Assignments java Collections

1.What is the output of the following program?

```
import java.util.*;
public class priorityQueue {
    public static void main(String[] args)
    {
        PriorityQueue<Integer> queue
            = new PriorityQueue<>();
        queue.add(11);
        queue.add(10);
        queue.add(22);
        queue.add(5);
        queue.add(12);
        queue.add(2);

        while (queue.isEmpty() == false)
            System.out.printf("%d ", queue.remove());

        System.out.println("\n");
    }
}
```

- a) 11 10 22 5 12 2
- b) 2 12 5 22 10 11
- c) 2 5 10 11 12 22
- d) 22 12 11 10 5 2

2.What is the output of the following program?

```
import java.util.*;
public class TreeSet {
    public static void main(String[] args)
    {
        TreeSet<String> treeSet = new TreeSet<>();

        treeSet.add("inube");
        treeSet.add("Java");
        treeSet.add("Geeks");
        treeSet.add("inubeJavaGeeks");
    }
}
```

```

for (String temp : treeSet)
    System.out.printf(temp + " ");

```

```

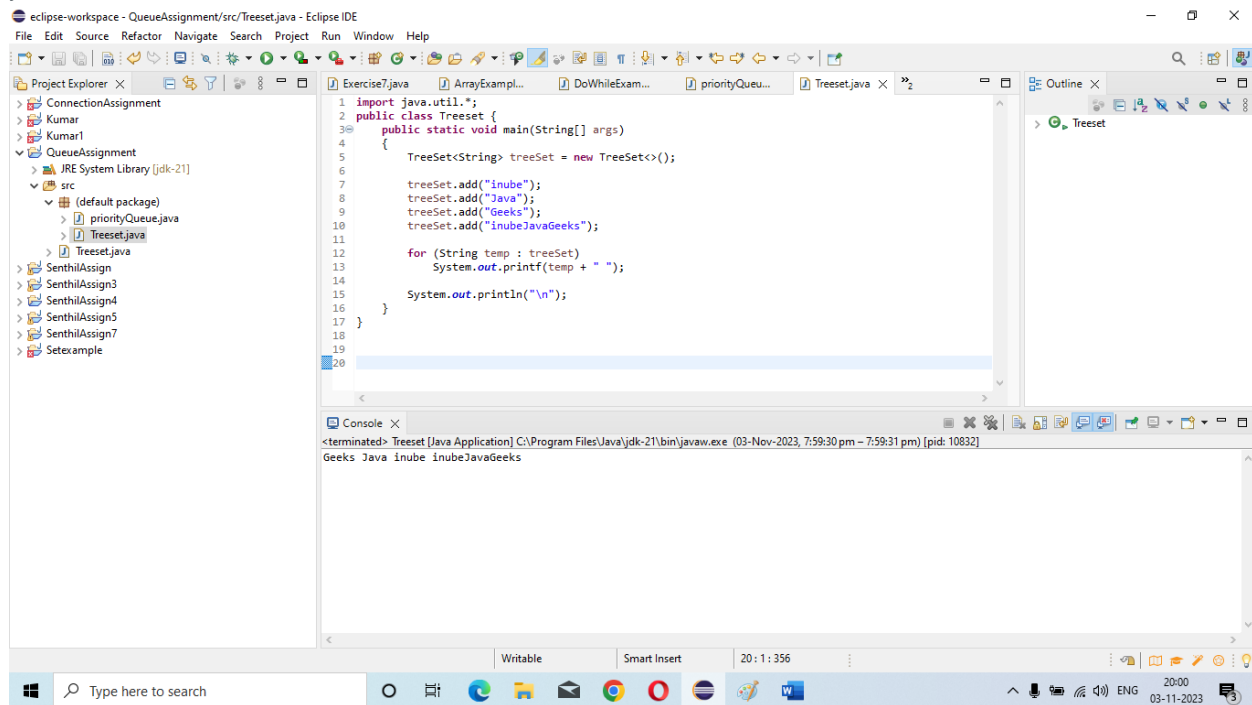
System.out.println("\n");

```

```

}

```



3.What is the output of the following program?

```

import java.util.*;
public class linkedList {
    public static void main(String[] args)
    {
        List<String> list1 = new LinkedList<>();
        list1.add("Java");
        list1.add("For");
        list1.add("Geeks");
        list1.add("JFG");
        list1.add("JavaforGeeks");

        List<String> list2 = new LinkedList<>();
        list2.add("Geeks");

        list1.removeAll(list2);
    }
}

```

```

        for (String temp : list1)
            System.out.printf(temp + " ");

        System.out.println();
    }
}

```

a) For Java JFG JavaforGeeks

b) For JavaforGeeks JFG

c) For JFG for

d) For JFG JavaforGeeks

Correct answer: Java For JFG JavaforGeeks

4) Which of the given choices is a possible output?

```

import java.util.*;
public class hashSet {
    public static void main(String[] args)
    {
        HashSet<String> hashSet = new HashSet<>();
        hashSet.add("Geeks");
        hashSet.add("For");
        hashSet.add("Geeks");
        hashSet.add("GeeksforGeeks");

        System.out.println(hashSet);
    }
}

```

Answer: [GeeksforGeeks, Geeks, For]

a) [Geeks, For, Geeks, GeeksforGeeks]

b) [GeeksforGeeks, Geeks, For]

5. What is the output of the following program?

```
import java.util.*;
public class stack {
    public static void main(String[] args)
    {
        List<String> list = new LinkedList<>();
        list.add("Geeks");
        list.add("For");
        list.add("Geeks");
        list.add("GeeksforGeeks");
        Iterator<Integer> iter = list.iterator();

        while (iter.hasNext())
            System.out.printf(iter.next() + " ");

        System.out.println();
    }
}
```

a) Geeks for Geeks GeeksforGeeks

b) GeeksforGeeks Geeks for Geeks

c) Runtime Error

d) Compilation Error

Answer: Geeks For Geeks GeeksforGeeks