

Name:- Komal Sudhakar Baviskar

Java8 features

#Codes And Their Outputs:

```
SRP.java Static_Interface.java ×
1 package Java8Features;
2
3 interface Sum {
4     int add1(int x, int y);
5 }
6
7 public class Static_Interface {
8     public static void main(String[] args) {
9         Sum a = (x, y) -> x + y;
10        System.out.println(a.add1(3, 5));
11    }
12 }
13
```

Console ×

<terminated> Static_Interface [Java Application] C:\Users\Vagadeesh Dowluri\Downl
8

```
SRP.java Static_Interface.java Stream_API.java ×
1 package Java8Features;
2
3 import java.util.Arrays;
4 import java.util.List;
5 import java.util.stream.Stream;
6
7 public class Stream_API {
8
9     public static void main(String[] args) {
10
11         List<Integer> nums=Arrays.asList(4,5,6,1,0,7,15);
12         Stream<Integer> data=nums.stream();
13
14         nums.stream()
15             .sorted()
16             .map(n->n*4)
17             .forEach(n->System.out.println(n));
18     }
19 }
```

Console ×

<terminated> Stream_API [Java Application] C:\Users\Vagadeesh Dowluri\Downloa
0
4
16
20
24
28
60

```
SRP.java Static_Interface.java Stream_API.java Time_API.java ×
1 package Java8Features;
2
3 import java.time.Duration;
4 import java.time.LocalDate;
5 import java.time.LocalDateTime;
6 import java.time.LocalTime;
7 import java.time.Period;
8
9 public class Time_API {
10
11     public static void main(String[] args) {
12         LocalTime today = LocalTime.now();
13         System.out.println(today);
14
15         LocalDate d = LocalDate.now();
16         System.out.println(d);
17
18         LocalDateTime dt = LocalDateTime.now();
19         System.out.println(dt);
20
21         LocalDate birthday = LocalDate.of(2002,2,9);
22         Period ageDiff = Period.between(birthday, d);
23         System.out.println(ageDiff.getYears());
24
25         LocalTime start = LocalTime.now();
26         LocalTime end = LocalTime.of(8,45);
27         Duration d1 = Duration.between(start, end);
28         System.out.println(d1);
29
30     }
31 }
32
33 }
34
```

Console ×

<terminated> Time_API [Java Application] C:\Users\Vagadeesh Dowluri\Downloads
19:11:46.595283
2025-08-10
2025-08-10T19:11:46.596281100
23
PT-10H-26M-46.6017848S

```
Functional_Interface.java ×
1 package Java8Features;
2
3 interface meeting{
4     void meet();
5
6     default void schedule_meet(){
7         System.out.println("Meeting is already Scheduled");
8     }
9 }
10
11 public class Functional_Interface {
12
13     public static void main(String[] args) {
14         meeting m=()->System.out.println("Meeting is going on");
15         m.meet();
16     }
17 }
18 }
19
```

Console ×

<terminated> Functional_Interface [Java Application] C:\Users\Vagadeesh Dowluri\Downloads
Meeting is going on

```
1 package Java8Features;
2
3 import java.util.ArrayList;
4
5 interface greeting{
6     void greet();
7 }
8
9 public class Lambda {
10
11     public static void main(String[] args) {
12         greeting g=() ->System.out.println("Hello Good morning");
13         g.greet();
14
15         ArrayList<String> arr = new ArrayList<>();
16         arr.add("1");
17         arr.add("2");
18         arr.add("3");
19
20         for(String n:arr) {
21             System.out.println(n);
22         }
23     }
24 }
25
26 }
27
```

Console ×

<terminated> Lambda [Java Application] C:\Users\Vagadeesh Dowluri\Downloads
Hello Good morning
1
2
3