

## EXPERIMENT-8

Give the output for following:

```
1. println("BatMaTSatRatIn".drop(3).take(7).replace("t", "s"))  
   println(List(1,2,3).flatMap(x=>List(x,4, x*2)))
```

Ans: OUTPUT:-

---

Output:

```
MaTSasR  
List(1, 4, 2, 2, 4, 4, 3, 4, 6)
```

```
2. def quadruple(x:Int):Int=x*4  
   val quadrupleCopy=quadruple _  
   println(quadrupleCopy(-1) + quadruple(2))
```

Ans: OUTPUT:-

---

Output:

```
4
```

```
3. val fruits = List("mango", "apple", "pear")  
   val fruits1=fruits.updated(1, "orange")  
   println(fruits.flatMap(_.toUpperCase))  
   println(fruits1.filter(_.take(1)=="o"))
```

Ans: OUTPUT:-

Output:

```
List(M, A, N, G, O, A, P, P, L, E, P, E, A, R)
List(orange)
```

4. `println("Functionalprogram".take(6).toUpperCase.drop(3))`

```
println(List('x', 'yy', 'zzz').flatMap(I=>List(i, i.length)))
```

Ans:- OUTPUT:-

Output:

CTI

```
List(x, 1, yy, 2, zzz, 3)
```

5. `var rrr= List("ant", "beer", "battered", "cool", "burger")`

```
rrr.filter {(w: String) =>w.take(1) == "b"}.reduceLeft{(a: String, b: String) =>s"$a $b"}
```

Ans: OUTPUT:-

Output:

```
beer battered burger
```

6. `object Whatever{`

```
def speak(something: String)(implicit nice: String) = {println(s"$something $nice")}
```

```
}
```

```
implicit val nice= "the walrus"
```

```
println{Whatever.speak("I am")}
```

```
println{Whatever.speak("I like")("catfood")}
```

Ans: OUTPUT:-

---

Output:

```
I am the walrus  
()  
I like catfood  
()
```

7. val s = "Scala programming is fun"

```
val result = s.split(" ").map(_ .reverse) .mkString(" ")  
  
println(result)
```

Ans: OUTPUT:-

---

Output:

```
alacS gnimmargorp si nuf
```

8. val numbers = List(5, 10, 15, 20)

```
val result = numbers.reduce((x, y) => x * y)  
  
println(result)
```

Ans: OUTPUT:-

---

Output:

```
15000
```