LAB EXPERIMENT – 8

Q1. println(“BatMaTSatRatIn”.drop(3).take(7).replace(“t”, “s”))

println(List(1,2,3).flatMap(x=>List(x,4, x*2)))

```
Output:

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

Q2. def quadruple(x:Int):Int=x*4

val quadrupleCopy=quadruple _

println(quadrupleCopy(-1) + quadruple(2))

```
Output:

4
```

Q3. val fruits = List("mango", "apple", "pear")

val fruits1=fruits.updated(1, "orange")

println(fruits.flatMap(_.toUpperCase))

println(fruits1.filter(_.take(1)==“o”))

```
Output:

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

Q4. println(“Functionalprogram”.take(6).toUpperCase.drop(3))

println(List(‘x’, ‘yy’, ‘zzz’).flatMap(I=>List(i, i.length)))

```
Output:

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

Q5. var rrr= List(“ant”, “beer”, “battered”, “cool”, “burger”)

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

```
Output:

beer battered burger
```

Q6. 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”)}

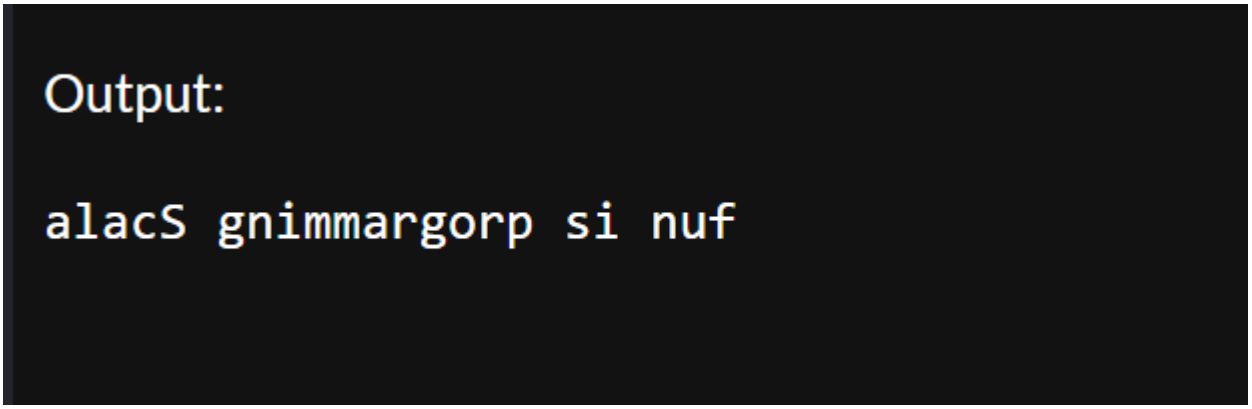
```
Output:

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

Q7. val s = "Scala programming is fun"

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

println(result)



Q8.val numbers = List(5, 10, 15, 20)

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

println(result)