

## LAB EXPERIMENT 7

Q. Practice Scala collections and their methods:

1. Lists
2. Sets
3. Tuples
4. Maps
5. Options

Solution:

(1)LISTS:

```
object ListsMain {  
  def main(args: Array[String]): Unit = {  
    val list = List(1, 2, 3, 4, 5)  
    val newList = list.map(_ * 2)  
    println(newList)  
  }  
}  
//VaswatiGogoi_500110490
```

Output:

**Output:**

List(2, 4, 6, 8, 10)

(2) SETS:

```
object SetsMain {  
  def main(args: Array[String]): Unit = {  
    val set1 = Set(1, 2, 3)  
    val set2 = Set(3, 4, 5)  
    val intersection = set1.intersect(set2)  
    println(intersection)  
  }  
}  
  
//VaswatiGogoi_500110490
```

Output:

Output:

Set(3)

(3) TUPLES:

```
object TuplesMain {  
  def main(args: Array[String]): Unit = {  
    val tuple = (1, "hello", true)  
    println(tuple._2)  
  }  
}  
  
//VaswatiGogoi_500110490
```

Output:

Output:

hello

(4)MAPS:

```
object MapsMain {  
  def main(args: Array[String]): Unit = {  
    val map = Map("a" -> 1, "b" -> 2, "c" -> 3)  
    println(map.get("a"))  
  }  
}  
  
//VaswatiGogoi_500110490
```

Output:

Output:

Some(1)

(5) OPTIONS:

```
object OptionsMain {  
  def main(args: Array[String]): Unit = {  
    val maybeValue: Option[Int] = Some(42)  
    val result = maybeValue.getOrElse(0)  
    println(result)  
  }  
}
```

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Output:

42