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Lab - 1

classmate

Date _____

Page _____

Q1.
Ans:-

Hello World Code .

```
object HelloWorld {  
    def main(args: Array[String]): Unit = {  
        println("Hello World")  
    }  
}
```

Q2.
Ans:-

Different identifiers in scala .

Identifiers are names given to various program elements such as variables, methods, classes, objects & packages . Some examples of different identifiers in Scala :-

(i) Variable identifier :

```
val age: Int = 25
```

(ii) Method identifier :

```
def greet(name: String): Unit = {  
    println(s"Hello, $name!")  
}
```

(iii) Class Identifier :

```
class Dog(name: String){  
    def bark(): Unit = {  
        println(s"$name says Woof!")  
    }  
}
```

```
val myDog = new Dog("Buddy")
```

(iv) Object Identifier:

```
object MathOp {  
    def add(a: Int, b: Int): Int = a + b  
}
```

```
val result = MathOp.add(3, 5)
```

(v) Package Identifier:

```
class MyClass {  
    class definition  
}
```

(vi) Type Identifier:

```
type coordinates = Tuple2[Double, Double]  
val point: Coordinates = (2.5, 3.0)
```

(vii) Parameter Identifier:

```
def printNumbers(start: Int, end: Int)
```

```
for (i <- start to end) {  
    println(i)  
}
```

```
printNumbers(1, 5)
```

(viii) Trait Identifier:

```
trait Speaker {  
    def speak(): Unit  
}
```

Q3
Ans:-

Implementation of var & val, multiple assignments

Var :-

object VarExample extends App {

var mutableVariable : Int = 10

println(s"Original value (var): \$mutableVariable")

mutableVariable = 20

} println(s"Updated value (var): \$mutableVariable")

Val :-

object ValExample extends App {

val immutableVariable : Int = 10

println(s"Original value (val): \$immutableVariable")

Multiple Assignment Example :-

object MultipleAssignment extends App {

var (x, y) = (5, 10)

println(s"Original values: x=\$x, y=\$y")

(x, y) = (y, x)

println(s"Swapped values: x=\$x, y=\$y")