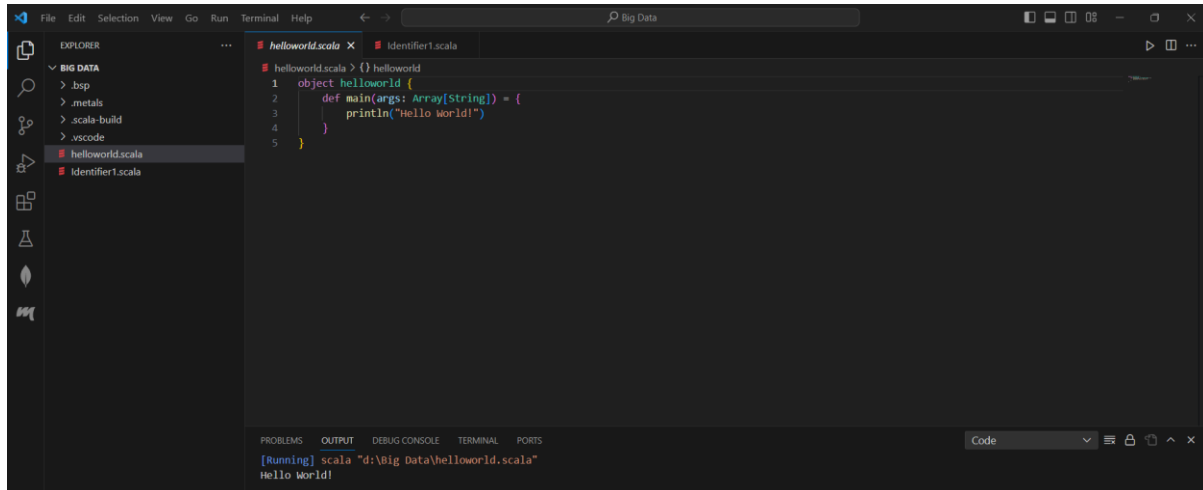


Lab Experiment 1

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Q1. Write Hello World code. Code – Print(“Hello World !”) Output –



The screenshot shows the VS Code editor with a file named `helloworld.scala` open. The code defines an object `helloworld` with a `main` method that prints "Hello World!". The terminal at the bottom shows the command `[Running] scala "d:\Big Data\helloworld.scala"` and the output `Hello World!`.

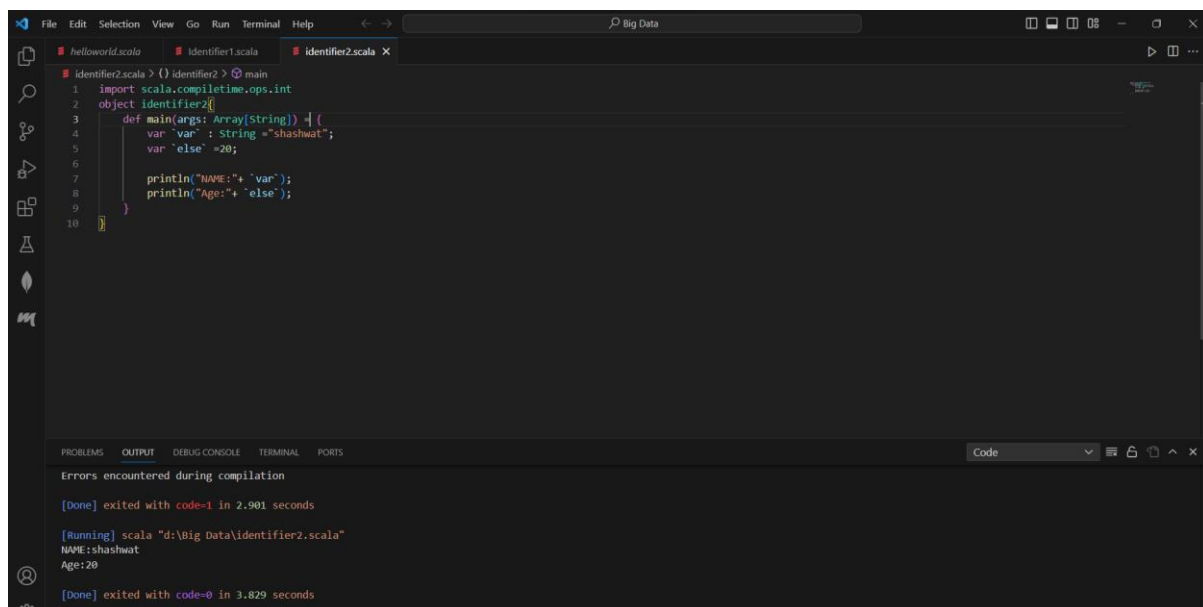
```
helloworld.scala > {} helloworld
1 object helloworld {
2     def main(args: Array[String]) = {
3         println("Hello World!")
4     }
5 }
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

[Running] scala "d:\Big Data\helloworld.scala"
Hello World!

Q2. Different Identifiers in scala. –

Answer –



The screenshot shows the VS Code editor with a file named `identifier2.scala` open. The code defines an object `identifier2` with a `main` method that prints the name and age of "shashwat". The terminal at the bottom shows the command `[Running] scala "d:\Big Data\identifier2.scala"` and the output `NAME:shashwat` and `Age:20`.

```
identifier2.scala > {} identifier2 > main
1 import scala.compiletime.ops.int
2 object identifier2{
3     def main(args: Array[String]) = {
4         var `var` : String = "shashwat";
5         var `else` = 20;
6
7         println("NAME:" + `var`);
8         println("Age:" + `else`);
9     }
10 }
```

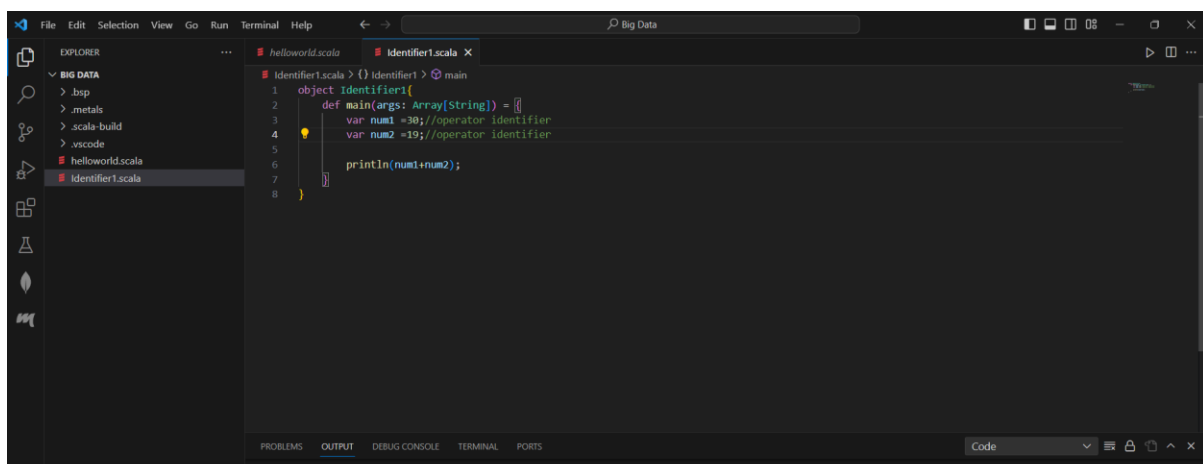
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

Errors encountered during compilation

[Done] exited with code=1 in 2.901 seconds

[Running] scala "d:\Big Data\identifier2.scala"
NAME:shashwat
Age:20

[Done] exited with code=0 in 3.829 seconds



The screenshot shows the VS Code editor with a file named `identifier1.scala` open. The code defines an object `Identifier1` with a `main` method that prints the sum of two numbers, 30 and 19. The terminal at the bottom shows the command `[Running] scala "d:\Big Data\identifier1.scala"` and the output `49`.

```
identifier1.scala > {} Identifier1 > main
1 object Identifier1{
2     def main(args: Array[String]) = {
3         var num1 = 30; //operator identifier
4         var num2 = 19; //operator identifier
5
6         println(num1+num2);
7     }
8 }
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

[Running] scala "d:\Big Data\identifier1.scala"
49

The screenshot shows a VS Code editor with a Scala file named `identifier2.scala`. The code defines an object `identifier2` with a `main` method. The `main` method takes an array of strings as input and performs several operations: it prints the first argument, increments a variable `num1` by 16, increments a variable `num2` by 4, and then prints the sum of `num1` and `num2`.

```
1 import scala.compiletime.ops.int
2 object identifier2{
3   def main(args: Array[String]) = {
4     var shashwat : String = "20M";
5     println(shashwat);
6
7     var num1 + : Int = 16;
8     println(num1_+);
9
10    var num2 + : Int = 4;
11    println(num2_+);
12
13    println(num1_+ + num2_+);
14  }
15 }
```

The output window shows the execution results:

```
[Done] exited with code=0 in 3.829 seconds
[Running] scala "d:\Big Data\identifier2.scala"
20M
16
4
20
[Done] exited with code=0 in 4.363 seconds
```

Q3. Implementation of var and val. Answer – Implementation of Var: 1 | Implementation of Val: //

Val is the final variable, its value cannot be changed Adding Val and Var –

The screenshot shows a VS Code editor with a Scala file named `identifier2.scala`. The code defines an object `identifier2` with a `main` method. The `main` method takes an array of strings as input and performs several operations: it prints the first argument, increments a variable `num1` by 50, increments a variable `num2` by 27, increments a variable `num3` by 44, and then prints the sum of `num1` and `num2`.

```
1 import scala.compiletime.ops.int
2 object identifier2{
3   def main(args: Array[String]) = {
4     var num1 :Int =50;
5     var num2 :Int =27;
6     var num3 :Int =44;
7     num2 = num3 + num1;
8     num3 = num1 - num2;
9     println(num1);
10    println(num2);
11    println(num3);
12  }
13 }
```

The output window shows the execution results:

```
[Done] exited with code=0 in 4.363 seconds
[Running] scala "d:\Big Data\identifier2.scala"
50
94
-44
[Done] exited with code=0 in 4.484 seconds
```

The screenshot shows a VS Code editor with a Scala file named `identifier2.scala`. The code defines an object `identifier2` with a `main` method. The `main` method takes an array of strings as input and performs several operations: it prints the first argument, increments a variable `num1` by 50, increments a variable `num2` by 27, increments a variable `num3` by 44, and then prints the sum of `num1` and `num2`.

```
1 import scala.compiletime.ops.int
2 object identifier2{
3   def main(args: Array[String]) = {
4     var num1 :Int =50;
5     var num2 :Int =27;
6     var num3 :Int =44;
7     // num2 = num3 + num1;
8     num3 = num1 - num2;
9     println(num1);
10    println(num2);
11    println(num3);
12  }
13 }
```

The output window shows the execution results:

```
[Done] exited with code=0 in 4.484 seconds
[Running] scala "d:\Big Data\identifier2.scala"
50
27
23
[Done] exited with code=0 in 4.003 seconds
```