

Pune District Education Association's
College Of Engineering

Manjari (Bk.), Hadapsar, Pune-412307.

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DSBDAL

Assignment No:- d3

* Aim:-

Write a simple program in SCALA using apache spark framework.

* Theory:-

Scala combines object-oriented and functional programming is me concise high-level languages scala's static type help avoid bugs in complex application and its JVM & Javascript runtime let you build high-performance system with easy access to huge ecosystem of libraries.

Scala is a modern multi-paradigm programming language designed to express common programming pattern in a concise and type-safe ex scala has been created by martin odersky and he released the first version in 2003.

Scala smoothly integrates the feature of object-oriented and functions language this is simple & reader friendly.

-scala has thread based experience

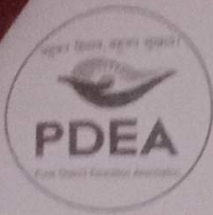
- scala is statistically typed language.
- scala can execute Java code.
- you can do concurrent and synchronized processing in scala.

* companies using scala:-

- 1) linkedIN
- 2) twitter
- 3) four square
- 4) Netflix
- 5) tumblr
- 6) the guardian
- 7) precog
- 8) sony
- 9) AirBnB
- 10) Klout

* Apache spark features -

- In memory compilation
- distributed processing using parallelize
 - fault-tolerant
 - immutable
 - lazy evaluation
 - cache & persistence
 - Inbuilt optimization when using data frames.
 - supports ANSI SQL.



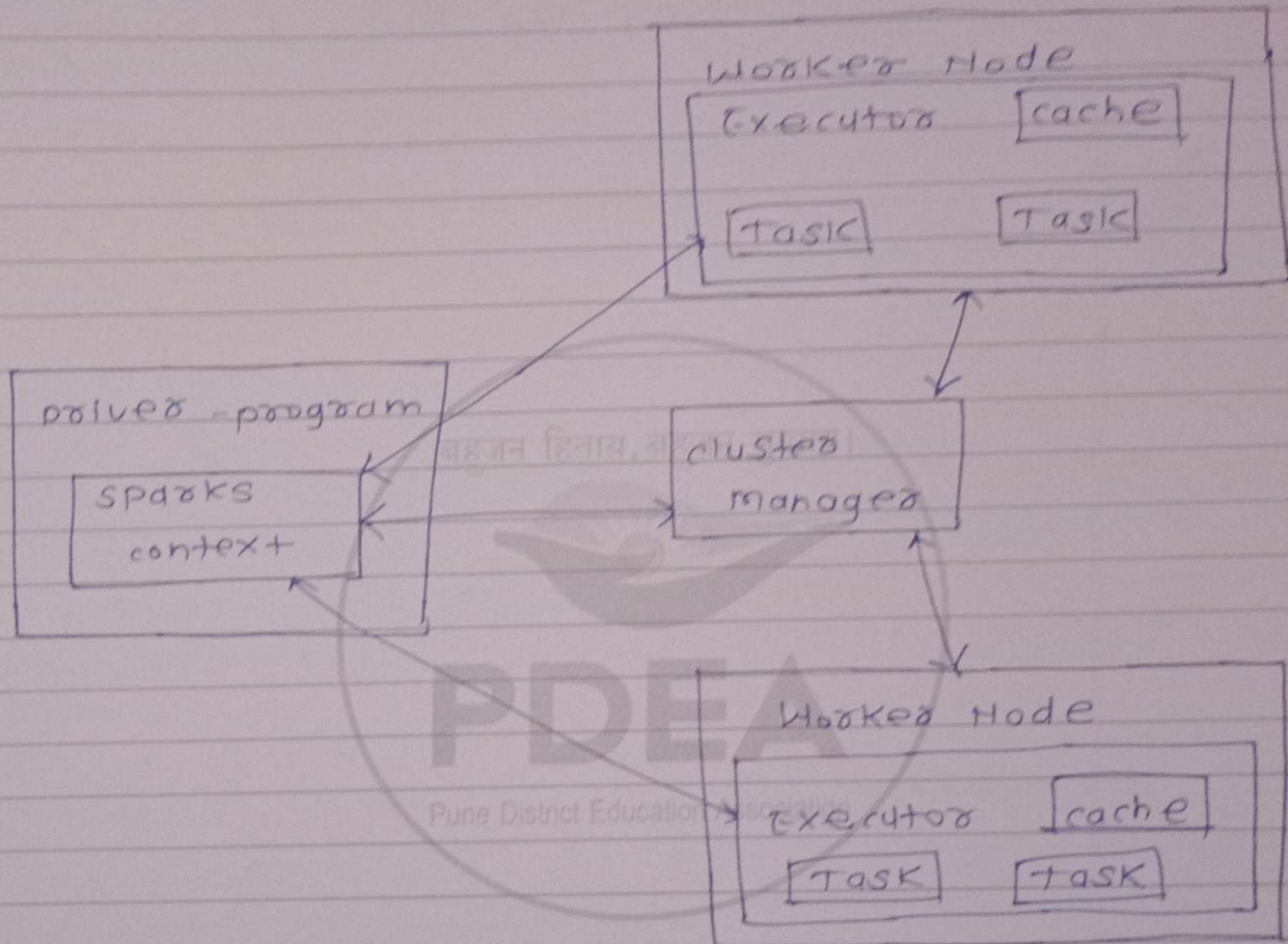
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* Apache spark architecture :-



* program Example:-

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

* Conclusion:-

Hence We're learnt about distributed application using log file of system.