**Group 8:**

**Problem Statement:**

Designing and Implementing an Automated Cloud Resource Scaling and Management System to Optimize Performance and Cost-Efficiency in Dynamic Cloud Environments.

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| **Name** | **Enrollno** | **Contribution** |

**Team members:-**

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| --- | --- | --- |
| Sapavath Yashwanth Krishna Naik | 21114093 | PSO |
| Pasala Veera Siva | 21114070 | PSO |
| Munugula Charan Tej | 21114062 | PSO |
| Ramavath Lalu | 21114080 | PSO |
| Sai Rohan Pawar | 21114088 | SJF |
| Akula Koushik | 21114010 | WICS |
| Cheedu Praneeth Reddy | 21114031 | WICS |
| Rongala Vijaya Pranathi Mrunalini | 21114084 | CLIENT |
| Taddi Satya Sai Shyam Sundar | 21114102 | SERVER |
| Nenavath Suresh Kumar | 21114066 | SERVER |

**Steps to execute:-**

**Requirements:**

* Eclipse IDE installed Java Development Kit (JDK) installed (recommended version 8 or later) CloudSim toolkit (downloadable from the official website: CloudSim).
* Extract PSO Folder, SJF from Github Link. Open file in eclipse and run PSO\_Scheduler.java.
* Use the same process for WICS. Place the file in CloudSim example and run it.
* For the folder execution\_cpp and open in any IDE such as VSCode in any system which supports threads and client-server connection.
* Run the server code, then run client code as many times required with inputs as type of client and then the time to execute.
* The status of all servers will be shown in “server\_status.txt”.