Sri Sivasubramaniya Nadar College of Engineering

Course Code	UIT2702	Course Name	Cloud and Distributed Computing
Regulation	2021	Academic Year	**2025-2026**
Semester		VII	
Department Offering the Course		Information Technology	
Exercise: 02		Remote Method Invocation (RMI) & Google Cloud Console Basics	

Exercise 1: Remote Method Invocation (RMI)

AIM:

To implement Remote Method Invocation (RMI) to facilitate remote execution of methods in a distributed computing setup.

PROCEDURE:

1. Define Remote Service:

   ● Create a Calculator class on the server with methods for addition and

   multiplication.

   ● Use Pyro4 to expose these methods for remote invocation by clients.

2. Server Setup:

   ● Register the Calculator service with a Pyro4.Daemon to generate a unique URI.

   ● Start the daemon to listen for incoming client requests.

3. Client Invocation:

   ● Prompt the client to input the server URI, connect via Pyro4.Proxy, and invoke

   the remote add_numbers and multiply methods.

   ● Display the results of both operations on the client side.

Exercise 2: Google Cloud Console Basics: Managing Projects, Roles, and APIs

Objective:

Learn how to access the Google Cloud Console, manage projects, modify IAM roles, and enable APIs.

Tasks:

Task 1: Access the Google Cloud console

Task 2: View projects in the Cloud console

Task 3: Review and modify roles and permissions

Task 4: Enable APIs and services