AJEENKYA D Y PATIL UNIVERSITY
THE INNOVATION UNIVERSITY
School of Engineering

Seamedu School of Pro-Expressionism	
Task/Project Brief	
Batch Name: Batch 2025	**Department:** BTECH CTIS 6
Task Name: Assignment-1	**Subject:** Cloud Technology Application (Advanced Level)
Date: 05/03/2025	**Submission Date:** -14/03/2025
Marks: 20	

Learning Outcomes:
The following table outlines the specific Learning Outcomes, the related actions that will be undertaken, the knowledge that will be leveraged, and the design and implementation skills that will be developed throughout this assessment.

LO	Learning Outcome	In this assessment you will have the opportunity to present evidence that shows you are able to:
LO1	Understand Cloud Migration Strategies	Understand Cloud Migration Strategies
LO2	Analyze Cloud Services for the Mid-Market	Compare and contrast cloud services like Force.com, MS Exchange, VMotion, VMware vCenter Converter, and Hyper-V Live Migration.
LO3	Demonstrate understanding of the 7R's of Cloud Migration, AWS Migration tools (Migration Evaluator, Migration Hub,	Demonstrate understanding of the 7R's of Cloud Migration, AWS Migration tools (Migration Evaluator, Migration Hub, Management and Governance, Control Tower, Landing Zone), and Skytap Solutions.

	Management and Governance, Control Tower, Landing Zone), and Sky tap Solutions.	

Task Brief:

Task Brief: This task challenges you to demonstrate your understanding and application of cloud migration and development strategies through the following activities:

Questions

- **Practical Task**
- Launch an EC2 instance using the AWS Management Console.
- AWS EC2, and how do you choose the right one.
- Connect to an EC2 instance using SSH from a local machine.
- Create an S3 bucket and upload files to it.

Submission Guidelines/Deliverables:

Report:

- Provide a detailed report covering your research, analysis, and implementation process.
- Include diagrams for architecture and workflows where necessary.

Prototype:

- Submit the source code or project files for the prototype.
- Provide clear documentation of the development steps.

Presentation:

- Prepare a brief presentation summarizing your findings and implementation.
- Be ready for a viva session to explain your approach and defend your design choices.

Submission Guidelines/Deliverables:

Code Submission:

1. **Source Code:**
   - Submit the complete python program file with the implemented procedure.
   - Ensure the code is well-commented, explaining each significant step and decision made during the implementation.
   - Use meaningful variable names and follow consistent coding standards for readability.
2. **Input and Output Files:**
   - Provide sample input and output files demonstrating the program's functionality.
   - Include at least three different test cases covering typical, edge, and invalid input scenarios.

Documentation:

3. **Implementation Report:**
   - Write a detailed report documenting the implementation process.
   - Explain the algorithm used, key decisions made, and any challenges encountered.

Viva:

4. **Viva Voce:**
   - Prepare to explain and discuss your code during the viva session.
   - Be ready to answer questions about the algorithm, design choices, and any challenges faced.
   - Demonstrate an understanding of the underlying principles of the iterative procedure and edge case handling.

Submission Format:

5. **File Format:**
   - Submit all files (source code, input/output files, and documentation) in a single pdf file.
   - Name the pdf file as YourName_CA1.pdf
6. **Deadline:**
   - Ensure your submission is uploaded to the designated platform by the specified deadline.
   - Late submissions may incur penalties of 20% as per the course policy

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Grading Criteria:

Criteria	Distinction (100% marks)	Merit (75% marks)	Pass (50% marks)	Needs Improvement (25% marks)	Poor (0% marks)
1.Research and Analysis[5M]	Comprehensive and detailed analysis with clear insights and relevant examples. [5M]	Good analysis with relevant examples and insights. [4M]	Basic analysis with minimal insights. [3M]	Limited analysis with gaps in understanding. [2M]	Lacks analysis and clarity. [1M]
2.Prototype Functionality[5M]	Fully functional with integration as per requirements. [5M]	Functional with minor issues. [4M]	Partially functional with significant gaps. [3M]	Limited functionality with errors. [2M]	Non-functional. [1M]
3.Documentation and Report[5M]	Detailed and well-structured with diagrams and clear explanations. [5M]	Good documentation with minor gaps. [4M]	Basic documentation with limited detail. [3M]	Poor documentation with significant gaps. 2M]	Missing or poorly written. [1M]

4.**Viva Voce**[**5M**]	Thorough understanding with clear and confident answers. [5M]	Good understanding with mostly clear answers. [4M]	Basic understanding with some gaps. [3M]	Limited understanding with struggles in answering. [2M]	Fails to demonstrate understanding. [1M]