# Assignment – 1

# for

**CLOUD COMPUTING TECHNOLOGY**

**(UEC634)**

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**Submitted to**

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**Objective: Introduction to AWS (Amazon Web Services) Academy Learner Lab.**

**Tools used:** AWS (Amazon Web Services) Academy Learner Lab

**Theory:**

Amazon Web Services, Inc. (AWS), a subsidiary of Amazon, offers on-demand cloud computing platforms and APIs to individuals, companies, and governments, employing a metered, pay-as-you-go model. Clients often leverage this alongside autoscaling, adjusting computing resources based on application demand to optimize costs. These cloud computing services cover networking, compute, storage, middleware, IoT, and processing capacity, along with software tools accessible through AWS server farms. This eliminates the need for clients to handle the management, scaling, and patching of hardware and operating systems. A foundational service, Amazon Elastic Compute Cloud (EC2), provides users with a virtual cluster of highly available computers, accessible over the internet through REST APIs, a CLI, or the AWS console. AWS's virtual computers replicate the attributes of real computers, including CPUs, GPUs, memory, storage options, operating system choices, networking capabilities, and pre-loaded software like web servers, databases, and CRM systems.

**Conclusion:** In this experiment, we have familiarized ourselves with the AWS Academy Learner Lab environment and its features.