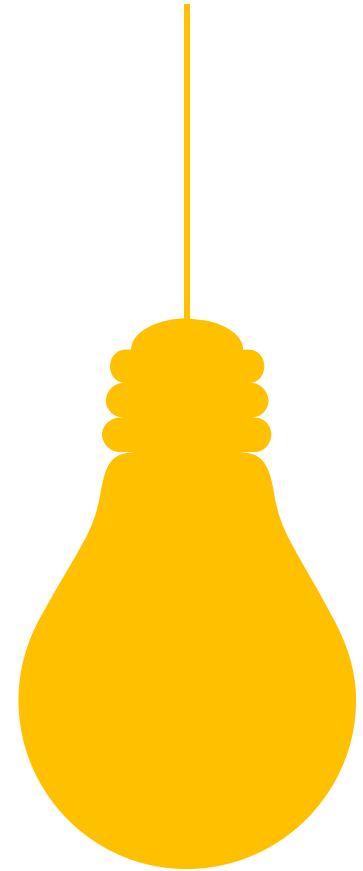Course Title : Azure Functions

Trainer Name: Sohaib Ur Rehman
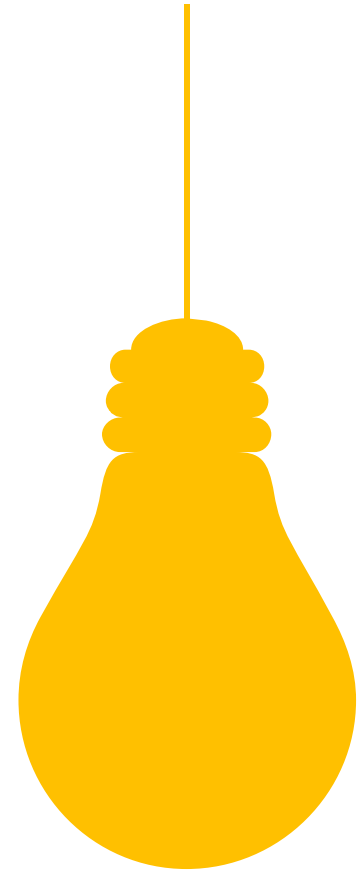
Azure Function

- Azure Functions are serverless compute services provided by Microsoft Azure.

- They allow you to run code in response to events or triggers.

- Ideal for building micro services, IoT solutions, and more.

Benefits of Azure Function

- **Serverless:** No need to manage infrastructure.

- **Cost-effective:** Pay only for what you use.

- **Scalable:** Automatically scale based on demand.

- **Event-driven:** Trigger functions based on events.

- **Language support:** Various programming languages.

- **Integration:** Seamless integration with Azure services
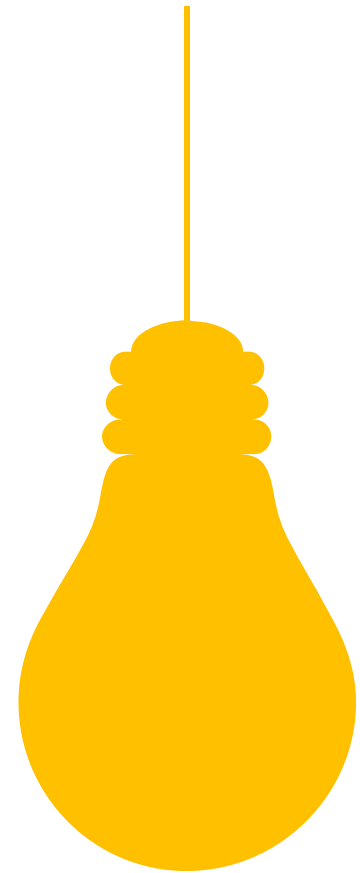
Key Concepts of Azure Functions

Function App: A logical container for functions.

Trigger: An event that starts the function.

Input and Output Bindings: Connect to data sources.

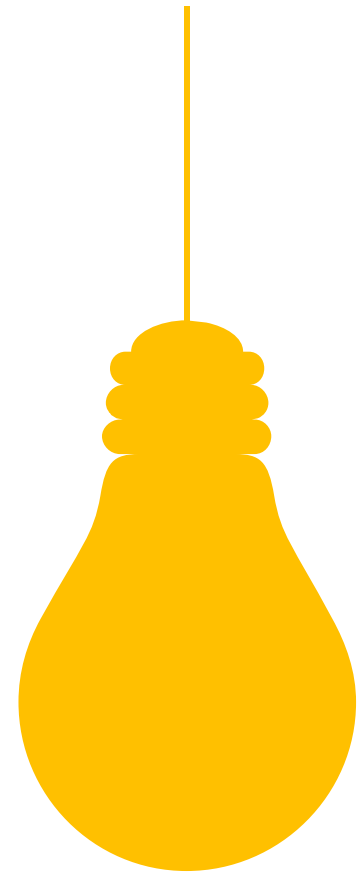**Stateless:** Functions are stateless by design.

Execution Context: Information about the function's environment.
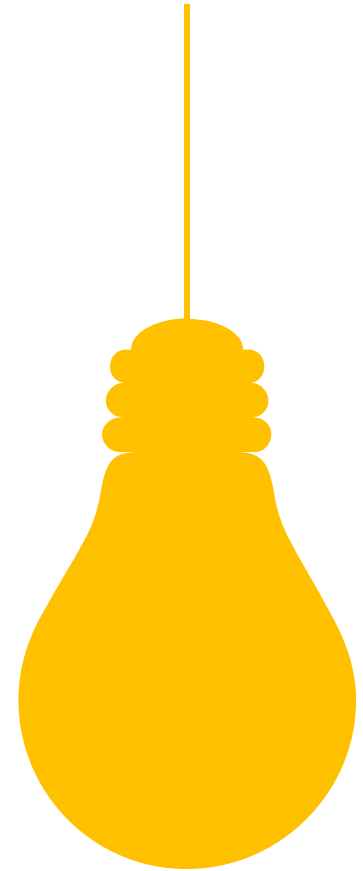
Creating and Deploying Azure Function

- Create a Function App.

- Develop functions in your preferred language.

- Define triggers and bindings.

- Deploy functions using Azure DevOps or VS Code.
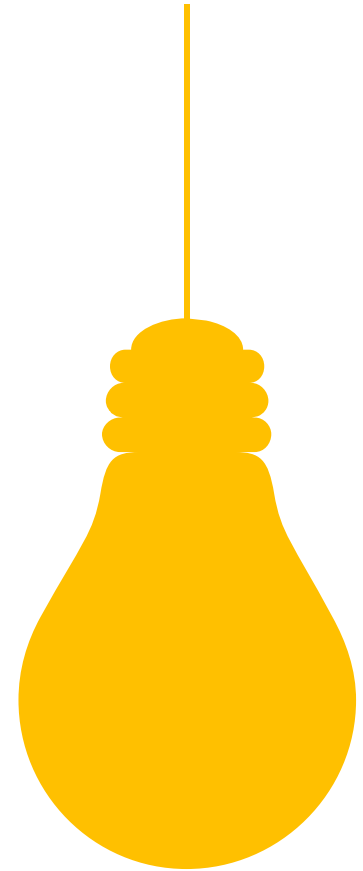
Integration with Other Azure Services

1. Azure Storage
2. Azure Cosmos DB
3. Azure Service Bus
4. Azure Event Grid
5. Azure Logic Apps
6. Azure Key Vault

Monitoring and Debugging

- Azure Monitor helps you track function performance.

- Application Insights provides deep insights into function behavior.

- Debugging tools in Azure Functions make it easy to identify issues.

Lab 03 Azure App Service

- Deploy PowerShell script on azure app services using window OS

- Select appropriate plan

- Create storage account using azure cli

- Create a resource group using azure cli

- Create function on azure app

- Create an event

- Deploy code