#### Assignment: Development Scenario 2: Event Management System

#### **Day 1: Introduction and Setup**

# Task 1: Set up the Kotlin development environment and write a simple Kotlin script to validate the setup.

Step 1: Install Kotlin:

-Download and install the Kotlin compiler from official Kotli website

Step 2: Install IntelliJ IDEA

- 1. Download IntelliJ IDEA:
- Go to the [JetBrains website](https://www.jetbrains.com/idea/download/).
- Select community version
- Download and run the installer.
- Launch IntelliJ IDEA after installation.

Step 3: Create a New Kotlin Project

- 1. Create a New Project:
- Open IntelliJ IDEA.
- Click New Project or go to File -> New -> Project.
- 2. Select Project Type:
- Select Kotlin from the sidebar.
- Choose Kotlin/JVM and click Next.
- 3. Configure Project Settings:
- Name your project (e.g. HelloWorld).
- Choose a location for your project.
- Click on Finish.

Step 4: Write and Run "Hello World" Program

- 1. Create a Kotlin File:
- In the Project Explorer, right-click the src folder.
- Select New -> Kotlin File.
- Name the file HelloWorld.
- 2. Write the Code:
- Open HelloWorld.kt and add:

```
fun main() {
println("Hello, World!")
}
```

- 3. Run the Program:
- Click the green play button next to the main function.
- Or right-click HelloWorld.kt and select Run HelloWorld.main().

# <u>Task 2: Experiment with Kotlin's String Templates to Create Dynamic Welcome</u> Messages

```
fun main() {
  val userName = "Rohit"
  val welcomeMessage = "Welcome, $userName"
```

```
println(welcomeMessage)
val event = "Kotlin Workshop"
println("You have successfully registered for the $event.")
}
```

### <u>Task 3: Define Data Types to Represent Event Details such as Name, Date, and</u> **Attendee Count**

```
1. Create a Kotlin File:
- In the Project Explorer, right-click the src folder.
- Select New -> Kotlin File.
- Name the file Event.
2. Write the Code:
- Open Event.kt and add:
data class Event(
val name: String,
val date: String,
val attendeeCount: Int
)
fun main() {
val event = Event("Kotlin Workshop", "July 20, 2024", 50)
println("Event Details:")
println("Name: ${event.name}")
println("Date: ${event.date}")
println("Attendee Count: ${event.attendeeCount}")
}
3. Run the Program:
- Click the green play button next to the main function.
- Or right-click Event.kt and select Run Event.main().
```

### <u>Task 4: Implement a Basic User Input Flow to Create New Events Using if and when Statements</u>

```
    Create a Kotlin File:

            In the Project Explorer, right-click the src folder.
            Select New -> Kotlin File.
            Name the file Event.

    Write the Code:

            Open Event.kt and add:

    import java.util.Scanner
```

data class Event( val name: String,

```
val date: String,
val attendeeCount: Int
fun main() {
val scanner = Scanner(System.`in`)
println("Enter event name:")
val name = scanner.nextLine()
println("Enter event date:")
val date = scanner.nextLine()
println("Enter attendee count:")
val attendeeCount = try { scanner.nextInt()
}
catch (e: Exception)
println("Invalid input for attendee count. Defaulting to 0.")
0
}
val event = Event(name, date, attendeeCount)
val category = when {
attendeeCount > 100 -> "Large"
attendeeCount > 50 -> "Medium"
else -> "Small"
}
println("Event Created:")
println("Name: ${event.name}")
println("Date: ${event.date}")
println("Attendee Count: ${event.attendeeCount}")
println("Category: $category")
3. Run the Program:
- Click the green play button next to the main function.
- Or right-click Event.kt and select Run Event.main().
```