

## Day-3, Assignment-2

**Task 9:** Develop a Schedule class that uses interfaces to ensure that all event types can be scheduled and rescheduled.

// Define the Schedulable interface

```
interface Schedulable {  
    val id: String  
  
    var time: String // or any other type suitable for your use case, e.g., LocalDateTime  
  
    fun schedule(time: String)  
  
    fun reschedule(newTime: String)  
}
```

// Implement a couple of example event types

```
class Meeting(override val id: String, override var time: String) : Schedulable {  
    override fun schedule(time: String) {  
        this.time = time  
        println("Meeting $id scheduled at $time")  
    }  
  
    override fun reschedule(newTime: String) {  
        this.time = newTime  
        println("Meeting $id rescheduled to $newTime")  
    }  
}  
  
class Task(override val id: String, override var time: String) : Schedulable {  
    override fun schedule(time: String) {  
        this.time = time  
        println("Task $id scheduled at $time")  
    }  
}
```

```

        override fun reschedule(newTime: String) {

            this.time = newTime

            println("Task $id rescheduled to $newTime")

        }
    }

    // Define the Schedule class
    class Schedule {

        private val events = mutableListOf<Schedulable>()

        fun addEvent(event: Schedulable) {

            events.add(event)

            event.schedule(event.time)

        }

        fun rescheduleEvent(id: String, newTime: String) {

            val event = events.find { it.id == id }

            if (event != null) {

                event.reschedule(newTime)

            } else {

                println("Event with id $id not found")

            }

        }

        fun showSchedule() {

            for (event in events) {

                println("Event ${event.id} is scheduled at ${event.time}")

            }

        }

    }
}

```

```
// Example usage

fun main() {

    val schedule = Schedule()

    val meeting1 = Meeting("meeting1", "2024-05-20T10:00")

    val task1 = Task("task1", "2024-05-20T12:00")

    schedule.addEvent(meeting1)

    schedule.addEvent(task1)

    schedule.showSchedule()

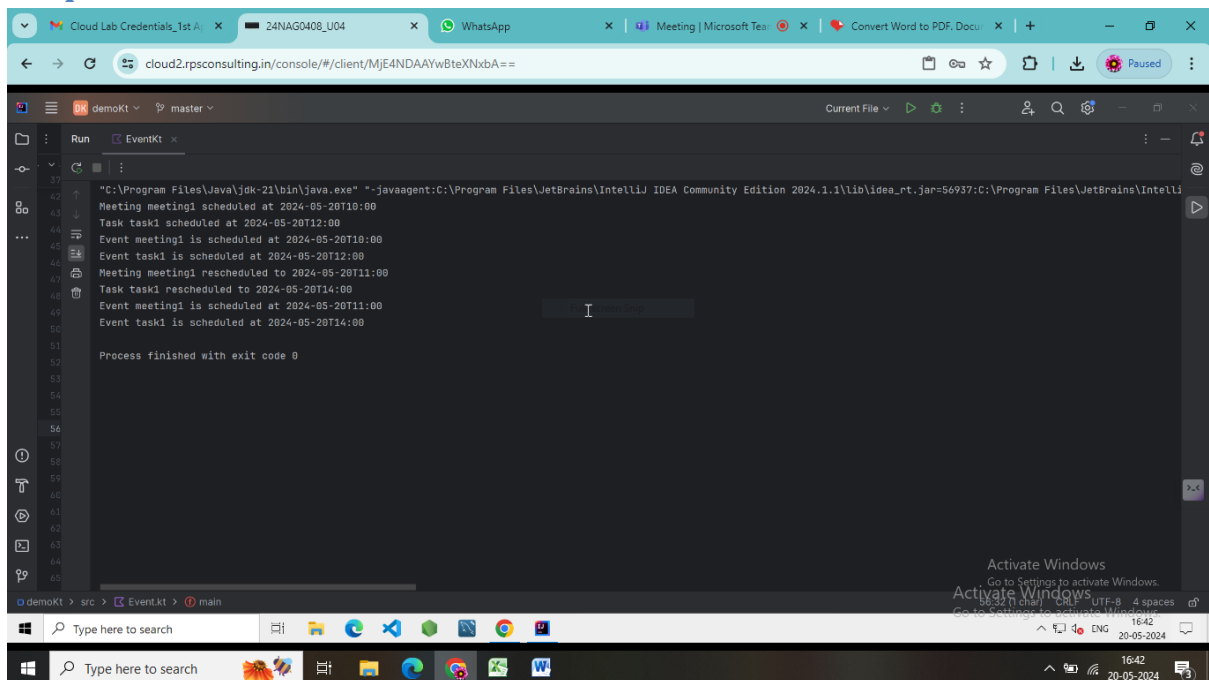
    schedule.rescheduleEvent("meeting1", "2024-05-20T11:00")

    schedule.rescheduleEvent("task1", "2024-05-20T14:00")

    schedule.showSchedule()

}
```

## Output:



```
"C:\Program Files\Java\jdk-21\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2024.1.1\lib\idea_rt.jar=56937:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2024.1.1\bin" -Dfile.encoding=UTF-8
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50 Meeting meeting1 rescheduled to 2024-05-20T11:00
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```

        return eventName
    }

    // Public setter for eventName
    fun setEventName(newName: String) {
        if (newName.isNotBlank()) {
            eventName = newName
        } else {
            throw IllegalArgumentException("Event name cannot be blank")
        }
    }

    // Public getter for eventDate
    fun getEventDate(): String {
        return eventDate
    }

    // Public setter for eventDate
    fun setEventDate(newDate: String) {
        if (newDate.matches(Regex("\\d{4}-\\d{2}-\\d{2}"))) { // Simple date format check (YYYY-MM-DD)
            eventDate = newDate
        } else {
            throw IllegalArgumentException("Invalid date format. Expected format: YYYY-MM-DD")
        }
    }
}

fun main() {
    val event = Event("Conference", "2024-09-15")
    println("Event Name: ${event.getEventName()}")
}

```

```

println("Event Date: ${event.getEventDate()}")

// Update event name and date
event.setEventName("Workshop")
event.setEventDate("2024-10-20")

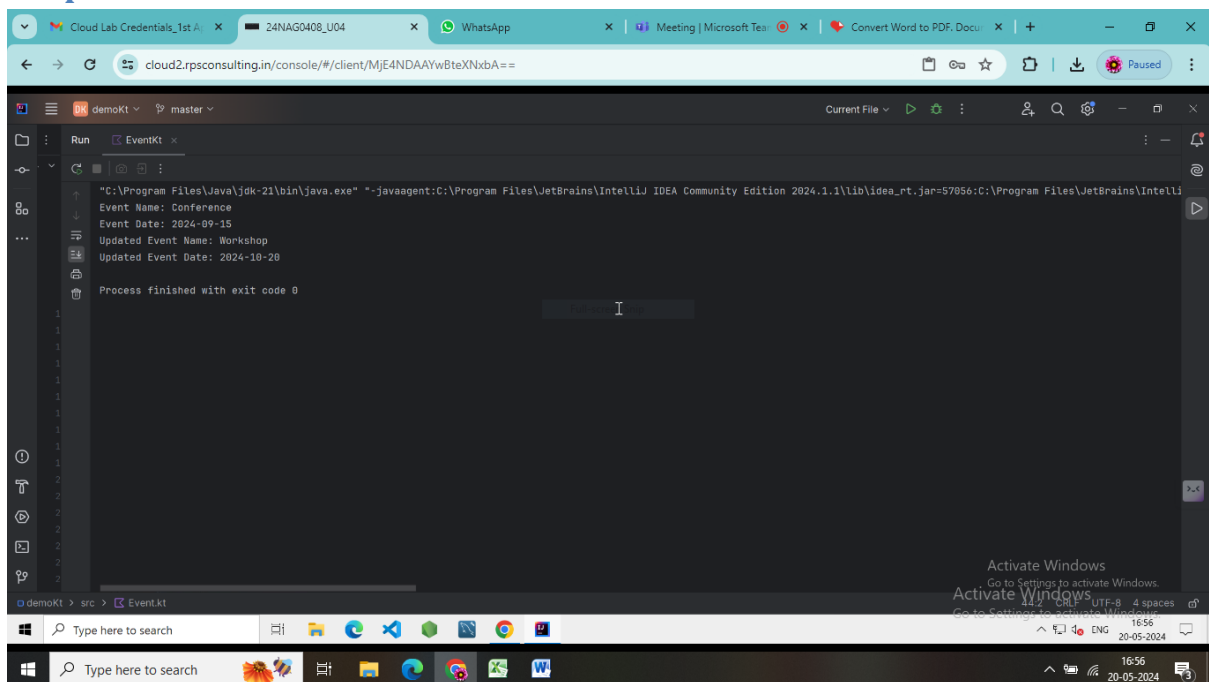
println("Updated Event Name: ${event.getEventName()}")

println("Updated Event Date: ${event.getEventDate()}")

}

```

## Output:



**Task 11:** Manage a collection of events allowing filtering by date or type using Kotlin's powerful collection operations.

```

import java.time.LocalDate

data class Event(val date: LocalDate, val type: String, val description: String)

val events = listOf(
    Event(LocalDate.of(2024, 5, 1), "Conference", "Tech Conference 2024"),
    Event(LocalDate.of(2024, 6, 15), "Meetup", "Kotlin Meetup"),
    Event(LocalDate.of(2024, 5, 20), "Workshop", "Kotlin Coroutines Workshop"),
    Event(LocalDate.of(2024, 7, 10), "Conference", "AI Conference 2024"),
    Event(LocalDate.of(2024, 5, 5), "Seminar", "Cybersecurity Seminar")
)

```

```

)

fun filterEventsByDate(events: List<Event>, fromDate: LocalDate): List<Event> {

    return events.filter { it.date >= fromDate }

}

fun filterEventsByType(events: List<Event>, eventType: String): List<Event> {

    return events.filter { it.type.equals(eventType, ignoreCase = true) }

}

fun filterEvents(events: List<Event>, fromDate: LocalDate, eventType: String): List<Event> {

    return events.filter { it.date >= fromDate && it.type.equals(eventType, ignoreCase = true) }

}

fun main() {

    val fromDate = LocalDate.of(2024, 5, 1)

    val eventType = "Conference"

    val filteredByDate = filterEventsByDate(events, fromDate)

    println("Events from $fromDate:")

    filteredByDate.forEach { println(it) }

    val filteredByType = filterEventsByType(events, eventType)

    println("\n$eventType events:")

    filteredByType.forEach { println(it) }

    val filteredByDateAndType = filterEvents(events, fromDate, eventType)

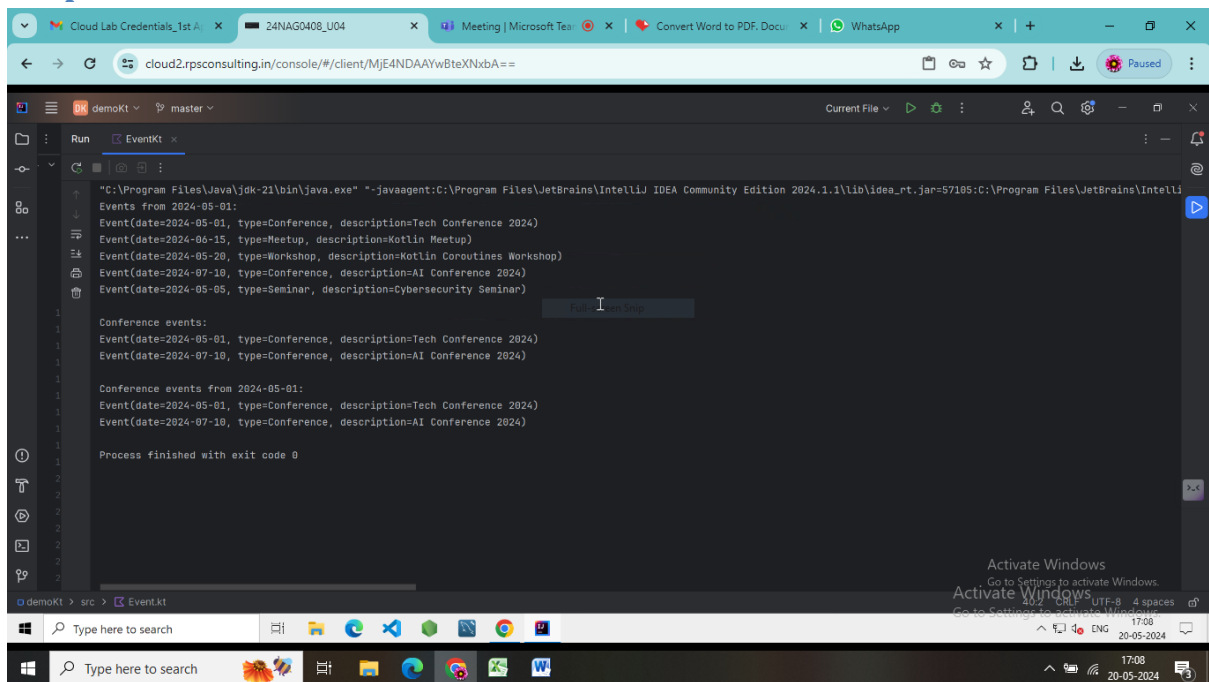
    println("\n$eventType events from $fromDate:")

    filteredByDateAndType.forEach { println(it) }

}

```

## Output:



```
"C:\Program Files\Java\jdk-21\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2024.1.1\lib\idea_rt.jar=S7185:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2024.1.1\bin" -Dfile.encoding=UTF-8
Events from 2024-05-01:
Event(date=2024-05-01, type=Conference, description=Tech Conference 2024)
Event(date=2024-06-15, type=Meetup, description=Kotlin Meetup)
Event(date=2024-05-20, type=Workshop, description=Kotlin Coroutines Workshop)
Event(date=2024-07-10, type=Conference, description=AI Conference 2024)
Event(date=2024-05-05, type=Seminar, description=Cybersecurity Seminar)

Conference events:
Event(date=2024-05-01, type=Conference, description=Tech Conference 2024)
Event(date=2024-07-10, type=Conference, description=AI Conference 2024)

Conference events from 2024-05-01:
Event(date=2024-05-01, type=Conference, description=Tech Conference 2024)
Event(date=2024-07-10, type=Conference, description=AI Conference 2024)

Process finished with exit code 0
```

**Task 12:** Use generics to create a flexible DataManager class capable of handling different data types, including attendees and events.

```
class DataManager<T> {

    private val dataList: MutableList<T> = mutableListOf()

    fun addData(data: T) {

        dataList.add(data)

    }

    fun removeData(data: T) {

        dataList.remove(data)

    }

    fun getDataList(): List<T> {

        return dataList.toList()

    }

}

// Example usage:

data class Attendee(val name: String, val age: Int)

data class Event(val eventName: String, val date: String)
```

```

fun main() {

    val attendeeManager = DataManager<Attendee>()

    val eventManager = DataManager<Event>()

    // Adding attendees

    attendeeManager.addData(Attendee("John", 30))

    attendeeManager.addData(Attendee("Alice", 25))

    // Adding events

    eventManager.addData(Event("Conference", "2024-05-20"))

    eventManager.addData(Event("Workshop", "2024-06-10"))

    // Getting lists

    val attendees = attendeeManager.getDataList()

    val events = eventManager.getDataList()

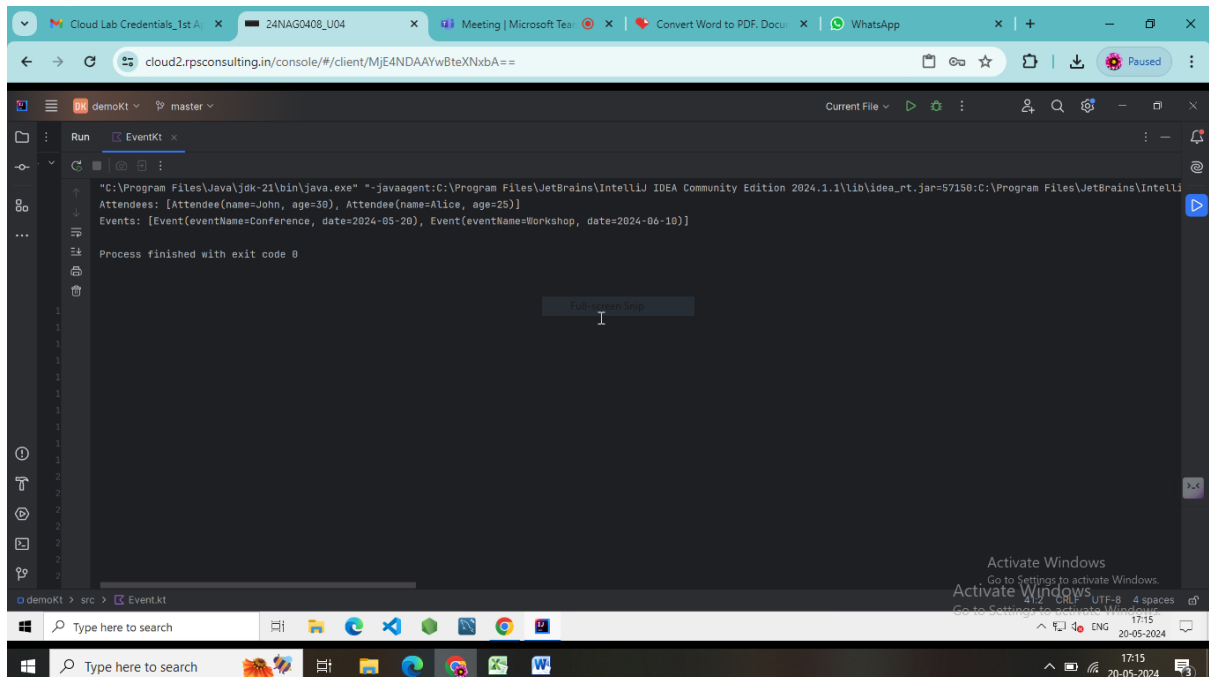
    println("Attendees: $attendees")

    println("Events: $events")

}

```

## Output:



The screenshot shows a web browser window with the URL `cloud2.rpsconsulting.in/console/#/client/MjE4NDAAyWbTeXNxbA==`. The browser displays the output of a Kotlin program. The output shows the list of attendees and events.

```

"C:\Program Files\Java\jdk-21\bin\java.exe" --javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2024.1.1\lib\idea_rt.jar=57158:C:\Program Files\JetBrains\IntelliJ
Attendees: [Attendee(name=John, age=30), Attendee(name=Alice, age=25)]
Events: [Event(eventName=Conference, date=2024-05-20), Event(eventName=Workshop, date=2024-06-10)]
Process finished with exit code 0

```

The output is displayed in a dark-themed window with a "Full-screen Snap" button. The Windows taskbar at the bottom shows the time as 17:15 on 20-05-2024.