What is UiPath?

Robotic Process Automation (RPA) allows organizations to automate tasks just like a human does them across applications and systems.

RPA robots can capture data, run applications, trigger responses, take decisions based on predefined rules and communicate with other systems.

RPA primarily targets processes which are highly manual, repetitive, rule-based, with low exceptions rate and standard electronic readable input.

What are components of UiPath?

Ui Path Orchestrator

Orchestrator is a cloud based Ui Path management and storage drive

Orchestrator manages the creation, monitoring, scheduling, and controlling of automated bots and processes.

It manages Queues, triggers, Assets, Project etc.

Orchestrator also functions as a repository for libraries, reusable components assets and processes used by robot or developer

Ui Path Studio

Ui Path Studio helps you design automation workflows visually, quickly and with basic programming knowledge

In Ui Path studio, automated processes are built in a visual way using the built-in recorder, drag & drop activities

 Activities form into comprehensive workflows in Studio, which are then executed by the Robot and published to Orchestrator.

Ui Path Robots

 The Robot is UiPath’s execution agent that enables to run processes developed in Studio.

 It executes workflows/instructions sent either locally or through Orchestrator

How Many Types of Bots we have?

Attended BOT

 Attended BOT is triggered by user events and operates alongside a human on the same workstation

An attended bot will “attend to” or assist a human with a task and are activated by the user by the click of a button

Help individual users with small and repetitive tasks

Unattended BOT

Unattended BOT operates on a present schedule, or as triggered by logic in the process flow.

An Unattended BOT is not dependent on users to trigger processes as they are controlled through Orchestrator

Helps in Running long processes or automations without the need of human interaction

How many types of Layouts do we have in UiPath?

There are three Layouts we have:

Sequence:

One of the most important activities in UiPath is that it connects several activities in a sequence. Each sequence acts as an individual container which can be named as per their function in the workflow for better understanding.

It allows executing activities inside each sequence to run separately as well as for easy segregation for each task clarity.   
   
Flowchart:

this activity allows an individual to contain various activities inside it; however, the pattern of executing each activity can be customized according to the requirement

The user is able to connect each activity as their required flow of execution

What are Variables in Uipath?

Variables are containers that can hold multiple data entries (values) of the same data type.

. For Example, Email Address can be a variable that holds the values like ABC@Gmail.com,XYZ@outlook.com etc. one at a time execution.

Variables help us to pass data from one activity to another.

**Most Commonly Used activities in UiPath**

Text/String Variable

Number Variable

Boolean Variable

Array Variable

Date and Time Variable

Data Table Variable

Generic Value Variable

**Text/String Variable**

We Use this Variable to store Text

Sequence Task: Based on the input we should get the welcome message

Step: 1 Add Input Dialog Box and give the input

Step 2: Add Message box to display a message

Cond: Should display a message based on input

**Number Variable**

We will Use this Variable to store the information

Task: Take user input for Marks for two subjects and display a total mark

Hint: we need to create three Variables here Sub+Sub