Couse code: CSE552

Course Title: Robotic Process Automation Design and Development

Term: Sep 2020 - Jan 2021

Date: 19/10/20

No of Pages: 5

Q-1)

Robotic Perocess Automotion is software that can be perogrammed easily to do small, repetitive tasks crows various applications.

Benefits:

- Time saving: Once the bot is programmed it can be sun any number of times as long as the backsours program's interface remains same.
- → Cost Soving: Bots con Significantly reduce costs that occur to do Small, repetitive tasks.
- -> Less chances of error: Bots are less prone to error than humans, which improves efficiency and reduces error.
- High flexibility to contend the working of the
- Minimal cooling experience required to develop tots.
- b) Types of Robots:
 - -> Attended Robots
 - Unattended Robots.

- Atto a Robots: They operate with periodic human intervention They are triggered by user events
- Unattended Robots: They operate without any human intervention They are controlled by UI Path Orchesterator in VI Path.

Challenges in RPA:

- Integration with Base Process: The Bot process is designed for a particular User Interface, if the interface of bose process charges, but should be modified.
- -> Identifying the right process for automation. The the sight perocess for automation and select them
- -> Process Analysis Issues: Problems may occur during process charges of * process for automation.

Algorithm:

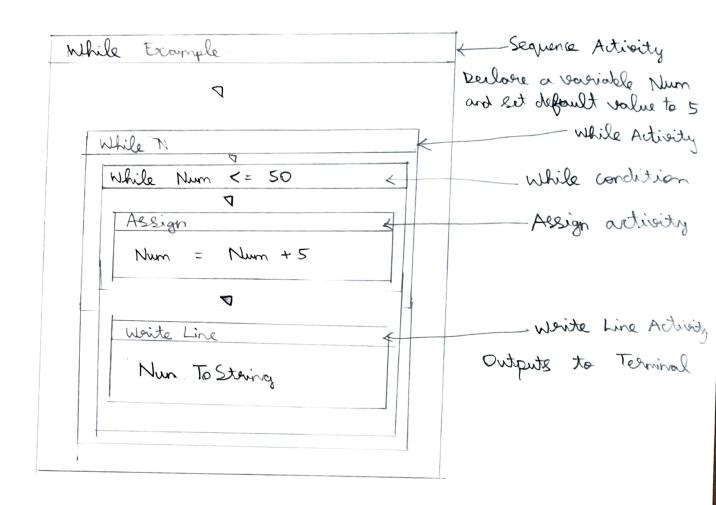
Step-1: Stort
Step-2: Derlare * rariable 'Num' and Set default value \$

to 5

Step-3: While 'Num' <= 50

Step-4: Num = Num +5

Step- 3: Stop.



0-5)

c) Algorithm:

treate : 1-gets

Step-2: Declare integer array 'Markon' and initialize

Step-3: For Each item in A

Declare integer sociable 'Sum' and Set

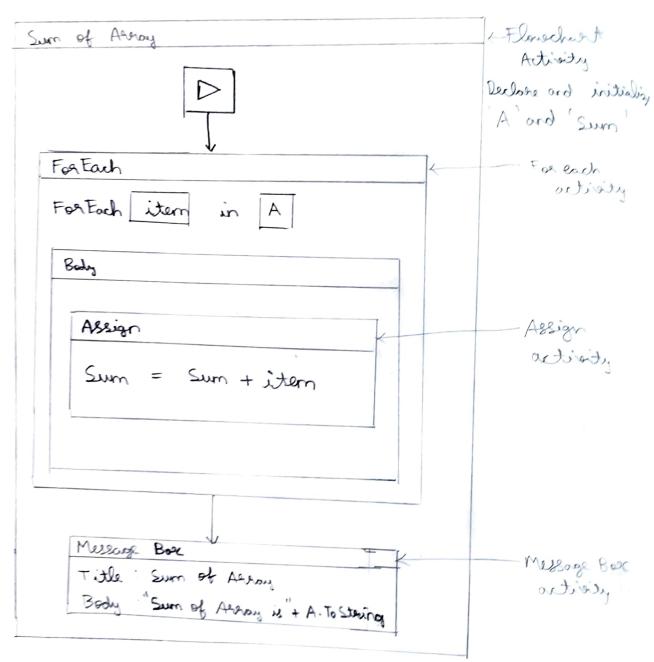
default to O

Step-4: For Each item in A

Step-5: Sum = Sum + item

Step-6: Display Sum Step-7: Stop:

3



- b) Types of Variables:
 - Just 32: Integer values like 1, 2 etc. Default value
 - → Steing: Steing values like "Helle", "Hi" etc. Must be inside "" Defoult value = ""
- → Bool: For Holds Town on False
- Array: Collection of homogeneous clamats of Some Latatype String array = {"Hello", "Hi"}
- Date Time Holds System Date and Time.

-> Data Table: Stores data in rows and columns.

Volviobles -> Used to store data in Some workflow -> Types: Integer, Array,

string etc.

Auguments.

Used to pass dota to other workflows

Types: In , Out , In/Out .

- a) Types of Projects:
 - -> Sequence:

A sequence is a collection of steps to be performed one after the other. Each step performs some cutivity.

-> Flow chart:

It is generally for larger applications. Consists of Several segmences. Easier for decision making applications:

-> State Machine:

It consists of Several States over which activities are performed. These house several sequences as well.