Round 1 Proposal

R0 without budget without comment

Print

Name of Developer & Institute	Prof. Kantesh Balani | Indian Institute of Technology Kanpur
Name of Participating Institute	Indian Institute of Technology Kanpur
Application Type	Participating Institute
Lab Name, ID & Discipline	Python for Basic Arithmetic Operations | 172 | Computer Science and Engineering
Name of Experiment	i. Arithmetic Operations
Target Group	UG,PG

1. Focus Area

SNo.	Focus Area
1	Instrumentation and Practical skills
2	Reinforce theoretical concept

111 x 113

Prof. Sushama Deshmukh
Nov 28, 2019 22:21:04
Reinforce theoretical concept , Instrumentation and Practical skills

111 x 113

Prof. Kantesh Balani
Dec 03, 2019 11:43:08
Issue Resolved

2. Learning Objective and Cognitive Level

SNo.	LO ID	Learning Objective	Cognitive Level	Action Verb
1	583	Student will be able to recall the various arithme-tic operations.	Recall	Identify
2	584	Student will be able to describe the types of arithmetic operators in Python programming language and how to perform various arithmetic operations.	Understand	Describe
3	585	Student will be able to perform calculation on input values using arithmetic operators in Python programs.	Apply	Calculate

Prof. Kantesh Balani
Dec 03, 2019 11:52:25
Issue Resolved

Prof. Sushama Deshmukh
Nov 28, 2019 22:21:04
Reframe Lo 585 at apply level and using calculate action verb

Prof. Kantesh Balani
Dec 03, 2019 12:20:03
Issue Resolved

Prof. Sushama Deshmukh
Nov 28, 2019 22:21:04
LO 586 We already have Pretest and posttest so Ii suggest you to change this LO

Prof. Kantesh Balani
Dec 03, 2019 12:34:40
The issue has been resolved

3. Instruction Strategy

Method	Assessment	Instruction Strategy
Summative assessment.	There are various operators used in the python programming language. We have presented a few most commonly used operators and presented them in our simulators. Users can try these operators to learn various concepts of Arithematic operators.	Problem Based

LO ID	Learning Objective	Task	Assessment Question
583	Student will be able to recall the various arithme-tic operations.	student will select arithmetic operators from the dropdown.	What are the arithmetic operators? A. addition B. substraction C. multiplication D. division E. All of the above
584	Student will be able to describe the types of arithmetic operators in Python programming language and how to perform various arithmetic operations.	Student will select arithmetic operator from the dropdown and enter the value of operands in the text field.	Which operator performs X+Y in the given option where X and Y are any operands ? A. Multiplication B. Division C. Addition D. Substraction
585	Student will be able to perform calculation on input values using arithmetic operators in Python programs.	Student enters different values in the text field for a particular operator.	What is the correct answer for - 8 multiply 5 divide 5 add 4? A. 12 B. 60 C. 204

Prof. Sushama Deshmukh
Nov 28, 2019 22:21:04
Task is about, what actions students will perform in simulator for achieving LO

Prof. Kantesh Balani
Dec 05, 2019 12:07:17
Issue Resolved

Prof. Sushama Deshmukh
Nov 28, 2019 22:21:04
Task should be aligned with LOs

Prof. Kantesh Balani
Dec 05, 2019 12:58:50
Issue Resolved

Sno	What will student do	What will simulator do	Purpose
1	1. Student will click on simulator tab. 2. Student will click on simulator drop down. 3. Student will select the option in drop down. 4. Student will enter the values in text fields and click start. 5. Student will click “Next” button. 6. Student will click “Reset" button.	1. Simulator will be opened. 2. Simulator will show all the options in drop down. 3. Simulator will show the selected items. 4. Simulator will show program steps. 5. Simulator will highlight each executing line and its output. 6. Simulator will be restarted.	1. To start simulator. 2. To show all the options in drop down of simulator . 3. To let student choose one of the option in drop down. 4. To present a code to the user for better understanding. 5. To explain the steps involved and meaning of each line of code. 6. To restart the simulator.

111 × 113

Prof. Sushama Deshmukh
Nov 28, 2019 22:21:04
please refer the documentation for writting simulator interaction

111 × 113

Prof. Kantesh Balani
Dec 05, 2019 16:34:19
Issue Resolved

111 × 113

Prof. Sushama Deshmukh
Nov 28, 2019 22:21:04
Start from very initial state. Like student will start simulator, then action 1 action 2,.....likewise in what student will do section