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	iii. Loops
Target Group	UG,PG

1. Focus Area

SNo.	Focus Area
1	Instrumentation and Practical skills

Prof. Sushama Deshmukh
Oct 25, 2019 17:01:01
Reinforce theoretical concept , Instrumentation and Practical skills

Prof. Kantesh Balani
Oct 29, 2019 14:07:16
Sure, these action verbs will be defined when making the simulator.

2. Learning Objective and Cognitive Level

SNo.	LO ID	Learning Objective	Cognitive Level	Action Verb
1	607	Student will be able to define the types of looping control structures in Python programming language.	Recall	Define
2	608	Student will be able to describe the concepts of loops in Python programming language.	Understand	Describe
3	609	Student will be able to apply loops in various Python programs.	Apply	Apply

looping control structures in python programming

Prof. Kantesh Balani
Dec 09, 2019 13:25:39
Issue Resolved

Prof. Sushama Deshmukh
Nov 28, 2019 22:03:32
I request you to please make the changes here also. So I can give you full marks for this section. And also read the Chapter 1 of VLAB Manual. It will help you to understand.

3. Instruction Strategy

Method	Assessment	Instruction Strategy
Summative Assessment	· The main objective to develop this lab is to provide an interactive source of learning for the students. The simulation that we provide fulfills our purpose. · The learner will be easily able to understand Python programming language. · The user will able to understand the use of loops. · With the help of our virtual lab, students get a chance to learn Python programming language as they are provided with an interactive simulator. It is beneficial in understanding the basics of loops which simply cannot be understood by self-evaluation.	Problem Based

Prof. Sushama Deshmukh
Oct 25, 2019 17:01:01
Assessments are tools an instructor can use to understand whether students have understood the concept. One way to assess students is to make the students perform a task in the simulator.

Prof. Kantesh Balani
Oct 29, 2019 14:08:22
Definitely. SImulator will be used at every step to check concepts and applications.

Prof. Sushama Deshmukh
Oct 25, 2019 17:01:01
Guided inquiry

Prof. Kantesh Balani
Oct 29, 2019 14:08:42
Yes, guided inquiry is also part of the simulator.

Prof. Sushama Deshmukh
Mar 10, 2020 22:29:47
In assessment part you need to describe about the task which the student will perform in simulator

LO ID	Learning Objective	Task	Assessment Question
607	Student will be able to define the types of looping control structures in Python programming language.	To state the use of loops.	What are loops?
608	Student will be able to describe the concepts of loops in Python programming language.	To understand the use of loops.	Why are loops used?
609	Student will be able to apply loops in various Python programs.	To apply/use loops in various Python programs.	What is the use of “class” keyword?
610		To evaluate his knowledge on the basis of quiz questions.	In quiz section there are 3 levels to which user can attempt according to the time he have given in experiment to analyze and learn from it.

111 × 113

Prof. Sushama Deshmukh
Mar 10, 2020 22:29:47
You may give MCQs

Resolve Comment

5. Simulator Interactions

Sno	What will student do	What will simulator do	Purpose
1	1. Examine the simulator screen and take note of all the instructions. 2. Choose among the various types of problem statement provided. 3. Enter input values if required. 4. Press “Submit” button. 5. Press “Next” button. 6. Press “Reset" button. 7. Press “Quiz” tab.	1. Display all the simulator contents. 2. Display input constraints of each type of problem. 3. Input fields will take input if necessary. 4. Display the code in Python programming language. 5. Highlight each executing line and its output. 6. Reset the simulator for a fresh start. 7. Display the quiz questions.	1. Display simulator interface. 2. To provide a wide range of problems to understand the concept of loops. 3. To take in input values to perform any operation. 4. To present a code to the user for better understanding. 5. To explain the meaning of each line of code. 6. To perform a fresh experiment. 7. To perform an evaluation of the knowledge gained by the user.

Resolve