Х

NIPTEIL

reviewer3@nptel.iitm.ac.in ▼

## Courses » Design and pedagogy of the introductory programming course

Announcements Course Ask a Question Progress Mentor FAQ

## Unit 4 - Week 3

Course outline	Assignment 3		
How to access the portal	The due date for submitting this assignment has pa As per our records you have not submitted this assignment.	ssed.  Due on 2018-09-19, 23	8:59 IST.
Week 1	Assignment 3		
Week 2	1) Which of the following is false		1 point
Week 3	Students learn because it will help them pass examin	nations which will help them get a c	degree.
Pedagogy.0: Introduction and basic principles	Students learn because they have been asked to do so by their teachers and parents.  We should not bother to tell students why we are teaching them a certain topic because they		
Lecture 13 : Pedagogy.1: Scaffolding, Lesson Plan	do not have the knowledge to understand.  Students learn because they are curious about how the world works; they are seeking answers to questions about what they see around them.		
Lecture 14 : Pedagogy.2: A quick tour of the course - 1	No, the answer is incorrect.  Score: 0  Accepted Answers:  We should not bother to tell students why we are teach	ing them a certain topic because t	hey do not h
Lecture 15 : Pedagogy.3: Tour - 2	the knowledge to understand.  2) Which of the following is not a reason to use turtle graintroductory programming?	aphics in the first lecture of	1 point
Lecture 16 : Pedagogy.4: Tour - 3, Conclusion	Turtle graphics is a very interesting software, ar software.	nd students should know about inte	eresting
Weekly Feedback	Turtle graphics enables students to do something they might like and thus attracts students to programming		
Download     Videos	Turtle graphics requires students to identify patterns in the picture to be drawn, and this is good practice for programming		
Ouiz :	Turtle graphics enables students to write programs from the first day, which is otherwise not		

© 2014 NPTEL - Privacy & Terms - Honor Code - FAQs -

A project of

National Programme on Technology Enhanced Learning



Funded by

In association with

Week 4	3) What does the following code draw on the screen?	points
	right(90)	
	repeat(100){forward(1); right(3.6);}	
	repeat(100)(forward(1); left(3.6);}	
	It draws a figure resembling the digit 8.	
	It draws two concentric circles	
	It draws one circle, and then draws over it again	
	It draws a figure resembling the symbol for infinity	
	No, the answer is incorrect.  Score: 0	
	Accepted Answers:	
	It draws a figure resembling the symbol for infinity	
	4) Which of the following is a valid argument for explaining the working of a computer using metaphors rather than stating at a high level what happens in computer hardware?	1 point
	Students have great difficulty undrestanding binary numbers	
	Students have learned nothing about electrical circuits when they enter college and it is difficult to tell them everything	s too
	We can take care to ensure that the metaphors we use will not be misunderstood, and explicitly discuss what are wrong interpretations	
	Students have more fun imagining a computer as an unintelligent human being who habe told every little thing	as to
	No, the answer is incorrect. Score: 0	
	Accepted Answers:  We can take care to ensure that the metaphors we use will not be misunderstood, and explicit what are wrong interpretations	tly discuss
	5) Which figure can you not draw no matter what values are typed in as input in the following code?	1 point
	double times,angle;	
	repeat(times){forward(1); right(angle)}	
	ellipse	
	decagon	
	quarter circle	
	straight line	
	No, the answer is incorrect. Score: 0	
	Accepted Answers:	
	ellipse	
	6) Which of the following is false?	1 point
	A while statement can be replaced by a for statement having the same effect	

A repeat statement can be replaced by an if statement having the same effiect				
A while statement with a break inside it can be rewritten using a while statement without a break but with some additional (non looping) code				
If no variable can be considered a "control variable" it is better to use a while loop rather than a for loop				
No, the answer is incorrect. Score: 0				
Accepted Answers:				
A repeat statement can be replaced by an if statement having the same efficit				
7) Which of the following is false? 1 point				
When a function call executes a new activation frame is created				
A function should be used if you need same action to be performed in many places in your code				
A large program should be broken up into small functions so as to make it easier to understand				
The compiler checks if a function is recursive and then decides whether an activation frame is to be created when it is called				
No, the answer is incorrect. Score: 0				
Accepted Answers: The compiler checks if a function is recursive and then decides whether an activation frame is to be created when it is called				
8) Which of the following is false? 1 point				
An array can be used to store a set of values of the same type				
An array can be used to store a sequence of values of the same type				
An array can be used to compute a histogram very efficiently				
An array can be used to store a set of values of different types				
No, the answer is incorrect. Score: 0				
Accepted Answers:				
An array can be used to store a set of values of different types				
9) Which of the following is false? 1 point				
Structures and classes in C++ are essentially the same				
Structures and arrays are passed to functions in a similar manner				
Structures and arrays can hold multiple integer values if we want				
If we need to represent a certain entity, it is better to create a structure to hold the data related to the entity				
No, the answer is incorrect. Score: 0				
Accepted Answers: Structures and arrays are passed to functions in a similar manner				
10)Which of the following is false? 1 point				
Activation frames are part of the heap memory				
An object allocated in the heap memory does not get deallocated automatically when control				

returns from a function call						
The new operator of C++ is safer than malloc of C	because the former allocates memory for					
a certain type and returns a pointer to that type						
A standard library vector is more efficient than a linked list if you only need to append and refer to the ith element						
No, the answer is incorrect.						
Score: 0						
Accepted Answers:						
Activation frames are part of the heap memory						
Previous Page	End					