NPTEL » Tools in Scientific Computing

files and 2D interpolation

Ouiz : Assignment 8

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No, the answer is incorrect. Score: 0

Accepted Answers: b. DMGetGlobalVector()

Assignment 8 The due date for submitting this assignment has passed.	Due on 2004 02 47 02:50 I	e T
As per our records you have not submitted this assignment.	Due on 2021-03-17, 23:59 I	51
1) In python, which of the following function returns the sample rate (in samples/sec) and data from a WAV file?	1 p	oin
a. scipy.io.wavfile.read b. scipy.io.wavfile.write		
c. scipy.io.read		
O d. scipy.io.write  No, the answer is incorrect.		
Score: 0 Accepted Answers:		
a. scipy.io.wavfile.read		
2) Which of the following function writes a NumPy array as a WAV file in python?	1 p	oin
a. scipy.io.wavfile.read b. scipy.io.wavfile.write		
c. scipy.io.read		
Od. scipy.io.write		
No, the answer is incorrect. Score: 0 Accepted Answers:		
b. scipy.io.wavfile.write		
3) Which of the following function in python computes the 1-D n-point discrete Fourier Transform (DFT) with the e (FFT) algorithm?	fficient Fast Fourier Transform 1 p	oin
a. scipy.fft.ifft2		
b. scipy.fft.ihfft		
c. scipy.fft.fft d. None of the above		
No, the answer is incorrect.		
Score: 0 Accepted Answers:		
c. scipy.fft.fft		
4) Which of the following function is used in python to return the Discrete Fourier Transform sample frequencies?	1 p	oin
a. scipy.fft.fftshift b. scipy.fft.fftfreq		
c. scipy.fft.ifftshift		
O d. scipy.fft.ifftfreq  No, the answer is incorrect.		
Score: 0 Accepted Answers:		
b. scipy.fft.fftfreq		
5) Which function in python, find peaks inside a signal based on peak properties?	1 p	oin
a. scipy.signal.freqz b. scipy.signal.lfilter		
c. scipy.signal.find_peaks		
O d. None of the above  No, the answer is incorrect.		
Score: 0 Accepted Answers:		
c. scipy.signal.find_peaks		
6) The matplotlib command ax.set_aspect(1.5) will set the x axis unit	1 p	oin
a. 1.5 times shorter than y axis unit b. 1.5 times longer than y axis unit		
c. 1.5 times shorter than x axis unit		
Od. 1.5 times longer than x axis unit		
No, the answer is incorrect. Score: 0 Accepted Answers:		
a. 1.5 times shorter than y axis unit		
7) In python, if f is 1D array of size n then the command f[0::2] will return	1 p	oin
a. All the elements from index 0 to n-2		
b. Alternate elements starting from index 0     c. Element with index 0 and 2		
d. Give error		
No, the answer is incorrect. Score: 0		
Accepted Answers: b. Alternate elements starting from index 0		
8) Which function in PETSc is used to get the number of steps completed?	1 p	oin
a. TSSetTime()		
○ b. TSGetTime() ○ c. TSGetTimeStep()		
d. TSGetStepNumber()		
No, the answer is incorrect. Score: 0		
Accepted Answers: d. TSGetStepNumber()		
9) Which function in PETSc sets the maximum number of steps to use?	1 p	oin
a. TSGetMaxTime()		
b. TSSetMaxTime()     c. TSSetMaxSteps()		
d. None of the above		
No, the answer is incorrect. Score: 0		
Accepted Answers: c. TSSetMaxSteps()		
10) Which PETSc function gets a PETSc vector that may be used with the DM global routines?	1 p	oin
a. DMCreateLocalVector()		
b. DMGetGlobalVector()		
c. DMCreateGlobalVector() d. DMCreateMatrix()		