L.J Institute of Engineering & Technology, Ahmedabad

Python -2 Question Bank for Units 4 & 5 (T2)

Note : This question bank is for reference only. LJU test paper may not be completely set from this.

unit_number	group_id	keyword	question_text	answer_text	marks	option1	option2	option3	option4
4	1	SOCKET	What protocol can be used to retrieve web pages using python?	C	1	urllib	bs4	HTTP	GET
4	2	SOCKET	What provides two way communication between two different programs in a network.	A	1	socket	port	http	protocol
4	3	SOCKET	Which method of the socket module allows a server socket to accept requests from a client socket from another host?	A	1	socket.accept()	socket.sendto(address)	socket.acceptsocket	accept.socket()
4	4	SOCKET	Which method of the socket module allows you to send data to a given address?	C	1	socket.sendto(address, data)	socket.address()	socket.sendto(data, address)	socket.data
4	5	SOCKET	Which method of the socket module allows you to associate a host and a port with a specific socket?	B	1	The socket.sendto(PORT) method	The bind(IP,PORT) method	The bind(PORT,IP) method	The socket.accept(PORT) method
4	6	SOCKET	What is the difference between the TCP and UDP protocols?	D	1	TCP is compatible with Python, while UDP is not	There are no differences	TCP is not connection-oriented, while UDP is	TCP is connection-oriented, while UDP is not
4	7	SOCKET	Which function is used to create the socket object?	A	1	socket()	bind()	listen()	accept()
4	8	SOCKET	Which function is used to bind-address to the socket? It takes two arguments hostname and port number.	B	1	socket()	bind()	listen()	accept()
4	9	SOCKET	Which function is used to establish and start the TCP listener?	C	1	socket()	bind()	listen()	accept()
4	10	SOCKET	Which function is used to send the UDP messages?	A	1	sendto()	send()	recv()	recvfrom()
4	11	SOCKET	Which function is used to send the TCP messages?	B	1	sendto()	send()	recv()	recvfrom()
4	12	SOCKET	Which function is used to receive the TCP messages?	C	1	sendto()	send()	recv()	recvfrom()
4	13	SOCKET	Which module in Python is used for working with sockets?	D	1	api	requests	json	socket
4	14	SOCKET	Which of the following needs to passed as an argument in connect() function for connecting client to server?	C	1	host	port	(host , port)	(host)
4	15	SOCKET	Which function is used to close a socket.?	D	1	socket()	bind()	listen()	close()
4	16	SOCKET	Which function is used to receive the UDP messages?	D	1	sendto()	send()	recv()	recvfrom()
4	17	API	Which of the following libraries is used to parse data received from Open Weather Map API?	D	1	api	request	requests	json
4	18	Beautiful Soup	What method in Beautiful Soup is used to find the first occurrence of a particular HTML element?	B	1	find_parent()	find()	select()	get_text()
4	19	Beautiful Soup	What method in Beautiful Soup is used to find the ALL occurrence of a particular HTML element?	B	1	find_parent()	find_all()	select()	get_text()
4	20	Beautiful Soup	how does one get the first header 1 tag after creating a soup object?	A	1	soup.h1	soup.header1	soup.h1[0]	soup.h1[1]
4	21	Beautiful Soup	Which of the following finds all link tags?	D	1	all_links = soup.find('a')	all_links = soup.findall('a')	all_links = soup.findall('link')	all_links = soup.find_all('a')
4	22	Beautiful Soup	Which format is constructed by nesting python dictionaries and lists as needed.	A	1	JSON	HTTP	HTML	XML
4	23	Beautiful Soup	which function formats the Beautiful Soup parsed data, so that there each tag is on its own separate line with indentation.	A	1	prettify()	beutify()	dump()	dumpS()
4	24	API	Which of the function of json library is used to print a json file with required indent?	B	1	dummy()	dumps()	dummys()	dump()
4	25	API	Which of the following libraries is used to get response using api key from Open Weather Map api?	B	1	api	requests	json	socket
4	26	SOCKET	write a python program to build a udp server side program		3				
4	27	SOCKET	write a Python program to build a tcp server-side program		3				
4	28	SOCKET	write a Python program to build a UDP client-side program		3				
4	29	SOCKET	write a Python program to build a TCP client-side program		3				
4	30	SOCKET	Write a Python program to build a UDP localhost host server that accepts a number from clients and returns the cube of that number to the client.		4				

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unit_number	group_id	keyword	question_text	answer_text	marks	option1	option2	option3	option4
4	31	SOCKET	Write a Python program to build a UDP localhost host server that accepts a number from clients and returns the square of that number to the client. (Only write server side program. No need to write the client side program)		4				
4	32	SOCKET	Write a Python program to build a UDP host server that accepts a message from clients and returns the same message to the client. Write programs for both the server and client side.		4				
4	33	SOCKET	Write a Python program to build a TCP host server that accepts a message from clients and returns the same message to the client. Write programs for both the server and client side.		4				
4	34	SOCKET	write a program for making HTTP requests with sockets in Python. Make a socket to receive the data from the link: " https://www.ljku.edu.in/lju-at-a-glance "		4				
4	35	API	Using Open Weather Map API, generate current air pollution data for Ahmedabad and extract detail of aqi.		3				
4	36	API	Using the Open Weather Map API, generate a 3 Hourly 5 Days weather forecast for Ahmedabad with all details in JSON format. Note: Request for all the data via API in metric units.		4				
4	37	API	Using the Open Weather Map API, find the location of ahmedabad		3				
4	38	API	Using the Open Weather Map API, find the wind_speed of ahmedabad		4				
4	39	API	Using the Open Weather Map API, generate a 3 hourly 5 days weather forecast for Ahmedabad with details like minimum temperature, maximum temperature, wind speed, humidity, and weather description. Display this data in the form of a Pandas data frame with the column names being date_time, min_temp, max_temp, wind_speed, humidity, and weather_description.		5				
4	40	Beautiful Soup	Write a Python program using beautiful soup to scrape all the news headlines in the div class "top news" from https://indianexpress.com/		5				
4	41	Beautiful Soup	Write a program for web scrapping using BeautifulSoup to scrape the following details from the given link and make a data frame using that scraped data from the page in a given link. Link: https://www.politifact.com/factchecks You will find 30 news articles with fact checks on this page. You need to scrape the following details from all the articles and store that in a data frame. Statement of News, Date of News, Source of News.		6				
4	42	Beautiful Soup	Write a program of web scrapping using BeautifulSoup to scrape the given data from the following link. https://editorial.rottentomatoes.com/guide/popular-movies/ On the above link, you'll find 30 Popular movies. Scrape the Movie Title and Rating of that particular movie and make a Dataframe of the same.		5				

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unit_number	group_id	keyword	question_text	answer_text	marks	option1	option2	option3	option4
4	43	Beautiful Soup	Write a Python program to find the title tags from a given html document. html_doc = """ <html> <head> <meta http-equiv="Content-Type" content="text/html; charset=iso-8859-1"> <title>An example of HTML page</title> </head> <body> This is an example HTML page Lorem ipsum dolor sit amet, consectetur adipiscing elit. Nunc at nisi velit, aliquet iaculis est. Curabitur porttitor nisi vel lacus euismod egestas. In hac habitasse platea dictumst. In sagittis magna eu odio interdum mollis. Phasellus sagittis pulvinar facilisis. Donec vel odio volutpat tortor volutpat commodo. Donec vehicula vulputate sem, vel iaculis urna molestie eget. Sed pellentesque adipiscing tortor, at condimentum elit elementum sed. Mauris dignissim elementum nunc, non elementum felis condimentum eu. In in turpis quis erat imperdiet vulputate. Pellentesque mauris turpis, dignissim sed iaculis eu, euismod eget ipsum. Vivamus mollis adipiscing viverra. Morbi at sem eget nisl euismod porta. Learn HTML from w3resource.com Learn CSS from w3resource.com </body> </html> """		3				
4	44	Beautiful Soup	Write a Python program to retrieve all the paragraph tags from a given HTML document. html_doc = """ <html> <head> <meta http-equiv="Content-Type" content="text/html; charset=iso-8859-1"> <title>An example of HTML page</title> </head> <body> This is an example HTML page Lorem ipsum dolor sit amet, consectetur adipiscing elit. Nunc at nisi velit, aliquet iaculis est. Curabitur porttitor nisi vel lacus euismod egestas. In hac habitasse platea dictumst. In sagittis magna eu odio interdum mollis. Phasellus sagittis pulvinar facilisis. Donec vel odio volutpat tortor volutpat commodo. Donec vehicula vulputate sem, vel iaculis urna molestie eget. Sed pellentesque adipiscing tortor, at condimentum elit elementum sed. Mauris dignissim elementum nunc, non elementum felis condimentum eu. In in turpis quis erat imperdiet vulputate. Pellentesque mauris turpis, dignissim sed iaculis eu, euismod eget ipsum. Vivamus mollis adipiscing viverra. Morbi at sem eget nisl euismod porta. Learn HTML from w3resource.com Learn CSS from w3resource.com </body> </html> """		3				

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unit_number	group_id	keyword	question_text	answer_text	marks	option1	option2	option3	option4
4	45	Beautiful Soup	Write a Python program to get the number of paragraph tags of a given html document. html_doc = """ <html> <head> <meta http-equiv="Content-Type" content="text/html; charset=iso-8859-1"> <title>An example of HTML page</title> </head> <body> This is an example HTML page Lorem ipsum dolor sit amet, consectetur adipiscing elit. Nunc at nisi velit, aliquet iaculis est. Curabitur porttitor nisi vel lacus euismod egestas. In hac habitasse platea dictumst. In sagittis magna eu odio interdum mollis. Phasellus sagittis pulvinar facilisis. Donec vel odio volutpat tortor volutpat commodo. Donec vehicula vulputate sem, vel iaculis urna molestie eget. Sed pellentesque adipiscing tortor, at condimentum elit elementum sed. Mauris dignissim elementum nunc, non elementum felis condimentum eu. In in turpis quis erat imperdiet vulputate. Pellentesque mauris turpis, dignissim sed iaculis eu, euismod eget ipsum. Vivamus mollis adipiscing viverra. Morbi at sem eget nisl euismod porta. Learn HTML from w3resource.com Learn CSS from w3resource.com </body> </html> """		3				
4	46	Beautiful Soup	Write a Python program to extract the text in the first paragraph tag of a given HTML document. html_doc = """ <html> <head> <meta http-equiv="Content-Type" content="text/html; charset=iso-8859-1"> <title>An example of HTML page</title> </head> <body> This is an example HTML page Lorem ipsum dolor sit amet, consectetur adipiscing elit. Nunc at nisi velit, aliquet iaculis est. Curabitur porttitor nisi vel lacus euismod egestas. In hac habitasse platea dictumst. In sagittis magna eu odio interdum mollis. Phasellus sagittis pulvinar facilisis. Donec vel odio volutpat tortor volutpat commodo. Donec vehicula vulputate sem, vel iaculis urna molestie eget. Sed pellentesque adipiscing tortor, at condimentum elit elementum sed. Mauris dignissim elementum nunc, non elementum felis condimentum eu. In in turpis quis erat imperdiet vulputate. Pellentesque mauris turpis, dignissim sed iaculis eu, euismod eget ipsum. Vivamus mollis adipiscing viverra. Morbi at sem eget nisl euismod porta. Learn HTML from w3resource.com Learn CSS from w3resource.com </body> </html> """		3				

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unit_number	group_id	keyword	question_text	answer_text	marks	option1	option2	option3	option4
4	47	Beautiful Soup	Write a Python program to find the length of the text of the first <h2> tag of a given html document html_doc = """ <html> <head> <meta http-equiv="Content-Type" content="text/html; charset=iso-8859-1"> <title>An example of HTML page</title> </head> <body> <h2>This is an example HTML page</h2> Lorem ipsum dolor sit amet, consectetur adipiscing elit. Nunc at nisi velit, aliquet iaculis est. Curabitur porttitor nisi vel lacus euismod egestas. In hac habitasse platea dictumst. In sagittis magna eu odio interdum mollis. Phasellus sagittis pulvinar facilisis. Donec vel odio volutpat tortor volutpat commodo. Donec vehicula vulputate sem, vel iaculis urna molestie eget. Sed pellentesque adipiscing tortor, at condimentum elit elementum sed. Mauris dignissim elementum nunc, non elementum felis condimentum eu. In in turpis quis erat imperdiet vulputate. Pellentesque mauris turpis, dignissim sed iaculis eu, euismod eget ipsum. Vivamus mollis adipiscing viverra. Morbi at sem eget nisl euismod porta. Learn HTML from w3resource.com Learn CSS from w3resource.com </body> </html> """		3				
4	48	Beautiful Soup	Write a Python program to find the text of the first <a> tag of a given html text. html_doc = """ <html> <head> <meta http-equiv="Content-Type" content="text/html; charset=iso-8859-1"> <title>An example of HTML page</title> </head> <body> This is an example HTML page Lorem ipsum dolor sit amet, consectetur adipiscing elit. Nunc at nisi velit, aliquet iaculis est. Curabitur porttitor nisi vel lacus euismod egestas. In hac habitasse platea dictumst. In sagittis magna eu odio interdum mollis. Phasellus sagittis pulvinar facilisis. Donec vel odio volutpat tortor volutpat commodo. Donec vehicula vulputate sem, vel iaculis urna molestie eget. Sed pellentesque adipiscing tortor, at condimentum elit elementum sed. Mauris dignissim elementum nunc, non elementum felis condimentum eu. In in turpis quis erat imperdiet vulputate. Pellentesque mauris turpis, dignissim sed iaculis eu, euismod eget ipsum. Vivamus mollis adipiscing viverra. Morbi at sem eget nisl euismod porta. Learn HTML from w3resource.com Learn CSS from w3resource.com </body> </html> """		3				
4	49	Beautiful Soup	Write a Python program to extract all the URLs from the webpage python.org that are nested within tags from.		5				
4	50	Beautiful Soup	Write a Python program to find all the h2 tags and list the first four from the webpage python.org.		5				
4	51	Beautiful Soup	Find all the link tags and list the first ten from the webpage python.org		4				
4	52	Beautiful Soup	Write a Python program to a list of all the h1, h2, h3 tags from the webpage python.org.		4				
4	53	Beautiful Soup	Write a Python program to extract all the text from a given web page python.org.		3				
4	54	Beautiful Soup	How to get the Daily News using Python. url='https://www.bbc.com/news'		5				
4	55	Beautiful Soup	Find the title of the webpage. url = 'https://en.wikipedia.org/wiki/Python_(programming_language)'		4				

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unit_number	group_id	keyword	question_text	answer_text	marks	option1	option2	option3	option4
4	56	Beautiful Soup	Find all the links on the page and print their URLs. url = 'https://en.wikipedia.org/wiki/Python_(programming_language)'		4				
4	57	Beautiful Soup	Find the first paragraph on the page and print its text. url = 'https://en.wikipedia.org/wiki/Python_(programming_language)'		4				
4	58	Beautiful Soup	Find all the headings on the page and print their text. url = 'https://en.wikipedia.org/wiki/Python_(programming_language)'		5				
4	59	Beautiful Soup	Find the table on the page and its rows, Extract the data from each row, and print it url = 'https://en.wikipedia.org/wiki/List_of_countries_and_dependencies_by_population'		5				
4	60	Beautiful Soup	Find all the citation needed tags on the page.url = 'https://en.wikipedia.org/wiki/Python_(programming_language)'		5				
5	1	Basic EDA	Which of the following pandas functions is used to convert categorical data into numeric data?	A	1	get_dummies()	numeric()	get_categorical()	get_dumps()
5	2	Basic EDA	How do you handle missing or corrupted data in a dataset?	D	1	Drop missing rows or columns	Replace missing values with mean/median/mode	Assign a unique category to missing values	All of these
5	3	Basic EDA	What is Scikit-learn?	A	1	A machine learning library in Python	A data visualization library in Python	A natural language processing library in Python	A web development framework in Python
5	4	Basic EDA	Which of the following is an example of a regression algorithm in Scikit-learn?	C	1	K-means clustering	Decision tree	Linear regression	Support vector machines (SVM)
5	5	Basic EDA	How would you access the column "symboling" from the dataframe df?	A	1	df["symboling"]	df=="symboling"	df[:"symboling"]	df[{"symboling"}]
5	6	Basic EDA	What is the correct symbol for missing data?	B	1	na	nan	none	non
5	7	Basic EDA	Why do we convert values of Categorical Variables into numerical values?	A	1	Most statistical models cannot take in objects or strings as inputs	To save memory	To save time	None of these
5	8	Basic EDA	What task do the following lines of code perform? avg=df['horsepower'].mean(axis=0) df['horsepower'].fillna(avg)	C	1	nothing; because the parameter inplace is not set to true	calculate the mean value for the 'horsepower' column and replace all the NaN values of that column by the mean value	replace all the NaN values with the mean	None of these
5	9	Linear Regression	From where you can import LinearRegression?	C	1	sklearn.metrics	sklearn.linearmodel	sklearn.linear_model	sklearn.model_selection
5	10	Linear Regression	From where you can import train_test_split?	D	1	sklearn.metrics	sklearn.linearmodel	sklearn.linear_model	sklearn.model_selection
5	11	Linear Regression	What is the purpose of the predict() method in sklearn?	B	1	To train a model using a given dataset	To make predictions using a trained model	To evaluate the performance of a model	To split the data in train and test data

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unit_number	group_id	keyword	question_text	answer_text	marks	option1	option2	option3	option4
5	12	Linear Regression	What is the purpose of the fit() method in sklearn?	A	1	To train a model using a given dataset	To evaluate the performance of a model	To create a plot of predicted values	All of these
5	13	Linear Regression	If we pass x and y to a function train_test_split(), we will get output in which order?	B	1	x_train, y_train, x_test, y_test	x_train, x_test, y_train, y_test	x_train, y_test, x_test, y_train	y_train, y_test, x_train, x_test
5	14	Linear Regression	Consider the following lines of code, what is the name of the column that contains the target values: from sklearn.linear_model import LinearRegression lm=LinearRegression() X = df[['highway-mpg']] Y = df['price'] lm.fit(X, Y) Yhat=lm.predict(X)	A	1	price	highway-mpg	Both A and B	None of these
5	15	Linear Regression	If X is a dataframe with 100 rows and 5 columns, and y is the target with 100 samples, and assuming all the relevant libraries and data have been imported, and the following line of code has been executed: LR = LinearRegression() LR.fit(X, y) yhat = LR.predict(X)	C	1	50	500	100	5
5	16	Linear Regression	Write a program to make a model based on linear regression for the following dataframe created from a csv file named “Package.csv” of x and y which follows equation y = a + bx. Write a program which can predict value of y based on any value of x, also write code to find value of a and b in above equation. Given Data in csv file:		3				

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unit_number	group_id	keyword	question_text	answer_text	marks	option1	option2	option3	option4
			cgpa package 6.89 3.26 5.12 1.98 7.82 3.25 7.42 3.67 6.94 3.57 7.89 2.99 6.73 2.60 6.75 2.48 6.09 2.31 8.31 3.51 5.32 1.86 6.61 2.60 8.94 3.65 6.93 2.89 7.73 3.42						
5	17	Linear Regression	Write a program to make a model based on linear regression for the following dataframe created from a csv file named "data.csv" of x1 and y which follows equation y = a+bx1. Write a program which can predict value of y based on any value of x, also write code to find value of a and b in above equation. Given Data in csv file: y X_1 140 60 155 62 159 67 179 70 192 71 200 72 212 75 215 78		3				

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unit_number	**group_id**	**keyword**	**question_text**	**answer_text**	**marks**	**option1**	**option2**	**option3**	**option4**
5	18	Linear Regression	Write a program to create a Model using linear regression to predict the price of house using the csv file provided named “Housing.csv”. Do the required process in the data before making a model. Find predicted values, co-efficients, intercept and mean squared error. https://github.com/pdsinroza/python2/blob/39b36bf2f0121910fd1207952aa0ec20b2d77cfb/housing.csv		4				
5	19	Linear Regression	Write a program to create a Model using linear regression to predict the student scores using the csv file provided named “student_scores.csv”. Do the required process in the data before making a model. Find predicted values, co-efficients, intercept and mean squared error. https://github.com/pdsinroza/python2/blob/695586ff85947e2ff727385ce208322f5b29de08/student_scores.csv		4				
5	20	Linear Regression	Write a program to create a Model using linear regression to predict the gas consumption using the csv file provided named “petrol_consumption.csv”. Do the required process in the data before making a model. Find predicted values, co-efficients, intercept and mean squared error. https://github.com/pdsinroza/python2/blob/f4711a48cc10c84c9892b96900760848e1c1fdf0/petrol_consumption.csv		4				