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	Time left 1:48:40
Question 1	
Not yet answered	
Marked out of 12.00	
Suppose that you have the following results of survey. Now it is necessary to analyze obtained survey by using Simple Sampling and Stratified Random Sampling. Recommended tool for using is MS Excel.	e Random
(Ignore the fpc and the clustering in calculating the standard error.)	
P.S. when you are going to write your answer into answer sheet, please round up to 2 digits after floating point	
1) Assume that you're going to do Simple Random Sampling (SRS) for above dataset.	
Compute a mean:	
P.S here you need to drag-and-drop digit-by-digit. For example, if your answer is 35.13 then you need to drag 3, then then 1 and 3	5, then . and
2) Compute a standard error for SRS:	
3) Now compute 95% of confidence interval. Please note that t-value in this case is equal to 2.04	
Upper limit for SRS:	
Lower limit for SRS:	
P.S You need to take rounded answers from 1st and 2nd questions	
Now for Stratified part	
1) What is the value of W _h	
2) Compute a mean:	
3) Compute a standard error for Stratified part:	
4) Compute d-value:	
Hint: d- value is a ratio of standard error for statified over standard error for SRS	
5) Compute d-squared:	
6) Compute N _{eff}	
P.S you need to take exact anwer from 5-th step rounded up to 2 digits after floating point.	
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Suppose that you're going X = np.c_[np.ones(df.) X = df[[Y]] yaluas na	shape	[0]),	df[nesis is	iinear	
Y = df['Y'].values.re Firstly it it necessary to nor				set: 7 -	(v-mu)/std										
Initial theta parameters is							et's co	mpl	ete the f	ollowin	table:				
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up to integer			indicate nere in				naximum theta value(Round								
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Question 4	
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Suppose that you're going to run neural network algorithm (see attached document): a5 = [
Question 5 Not yet answered Marked out of 9.00	
Suppose that you have the following dataset with 4 input features, 1 output variable (0,1 or 2). Your main task is to apply LogisticRegression algorithm and define precision, recall, accuracy and F-1 score for each class.	
First 60% of dataset should be training set and last 40% test set.	
Please round up to 3 digits after floating point. Drag-and-drop answers digit-by-digit.	
List of necessary libraries:	
import pandas as pd from sklearn.model_selection import train_test_split	
from sklearn.linear_model import LogisticRegression	
from sklearn.metrics import accuracy_score, precision_score, recall_score, f1_score	
# Train a Logistic Regression classifier clf_Ir = LogisticRegression(random_state=42, max_iter=1000)	
Accuracy:	
F-1 score (class = 0):	
F-1 score (class = 1):	
F-1 score (class = 2):	
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