

Questions	Excellent	Good	Fair	Unsatisfactory
Q1.	Successfully completed all three	Successfully completed any two	Successfully completed only one of	Fail to complete any given task.
* Load the data from supplied	tasks.	of three tasks.	three tasks.	
data file.				
* Remove the				
observations/samples where				
the heart diseases are not				
diagnosed by the				
Cardiologists.				
* Print the data dimension				
before and after removing				
the observations/samples.				
Q2. Continue from question	The state of the s	Successfully completed any	Successfully completed any two of the	Completed one or no task
1.	tasks.	three of the four tasks.	four tasks.	successfully.
* Display the number of rows				
and their indices that have				
missing data in one or more				
cells.				
* Replace the missing data by				
the lowest value of the				
corresponding feature if it is a				
continuous variable.				
* In case of categorical				
variable, remove the sample.				
* Print the median values of				
all features before and after				
replacing missing data.				



2. * Is there any change in data type? If yes, convert them back to appropriate data types. * Print all variables with corresponding data type.	Successfully completed both parts of the question.	and partially completed the other part of the question.	·	successfully.
Q4. Continue from question 3. Print the total numbers and ration of male and female patients who are at highest risk of heart disease.	Successfully completed the task.	Approach is correct, but the generated outputs are partially correct.	Approach is correct but failed to generate correct outputs.	Failed to understand the problem.
Q5. Continue from question 3. Is there any association between heart rate and severity of heart disease? Explain your results from given dataset.	Successfully showed the association with appropriate explanation.	Successfully showed the association but the explanation is partially correct.	Successfully showed the association with unacceptable/no explanation.	Failed to produce any acceptable output.
3. Print the average	Successfully displayed the requested values with appropriate description of the pattern.	Successfully displayed the requested values with partial description of the pattern.	Successfully displayed the requested values with unacceptable/no description of the pattern.	Failed to produce any acceptable output.
Q7. Print the percentage of patients at risk of heart disease having abnormality in both ECG and blood sugar with asymptomatic chest pain.	Successfully displayed the requested values.		Approach for solving problem is correct but it does not generate the correct outputs.	Failed to understand the problem.



	Successfully displayed the requested values.		Approach for solving problem is correct but it does not generate the correct outputs.	Failed to understand the problem.
	Successfully displayed the requested values.		Approach for solving problem is correct but it does not generate the correct outputs.	Failed to understand the problem.
_	requested values with	Successfully displayed the requested values with partial explanation.	Successfully displayed the requested values with unacceptable/no explanation.	Failed to produce any acceptable output.
Q11. Continue from question 3. Draw two scatter plots of cholesterol level, one against blood pressure and another against heart rate. Draw them in two subplots of the same plot.	Successfully plotted as requested.		Partially correct plotting.	Failed to plot the data.
Q12. Visualize the cholesterol level against number of blood vessel blocked for male and female using line plot. Explain the graph base on your observation.	appropriate explanation.	Successfully plotted with partial explanation.	Successfully plotted with unacceptable/no explanation.	Failed to plot the data.



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	, ,	Successfully plotted with partial	· ·	Failed to plot the data.
=	appropriate explanation.	explanation.	unacceptable/no explanation.	
pressure and total number of				
patients, based on age groups				
defined in question 9. Explain				
your observation from the				
graph.				
Q14. Continue from question	Successfully completed both		Successfully completed only one part of	Failed to complete any parts.
9.	parts of the question.		the question.	
* Add two more columns				
named				
['num_male_patients',				
'num_female_patients'] and				
having values of the number				
of male and female patients				
affected by heart disease in				
each age group respectively.				
* Save the combined dataset				
to a csv file named				
'age_group_stat.csv' in the				
same directory of your code				
file.				
Q15. Continue from question	Successfully completed both		Successfully completed only one part of	Failed to complete any parts.
1.	parts of the question.		the question.	
* Replace all the rows where				
the 'state' is null with its				
immediate previous row.				
* Display and save the				
resultant dataset to a csv file				
named 'clean_data.csv' in the				
same directory of your code				
file.				