Python Benchmark Task

NAME :	

Task Details

You were appointed as a data scientist to visualize the data from a statistical research on the effects of mental health on student's cgpa data set. This data was collected by a survey conducted by Google forms from University student in order to examine their current academic situation and mental health.

Please write down the start time and end time for each task and sub-task.

Task 1 : Import Python Libraries relevant for data visualisation

Description: Please import relevant packages for python data visualization as below :

- Pandas
- matplotlib pyplot
- matplotlib
- seaborn

Task	Start Time	End Time

TASK 1 : UNDERSTAND DATA

Task 2 : Loading the data

Description: Please load the data given from the file or GitHub data source.

- Data : Student Mental Health
  (https://github.com/arifjamal89/data_visualization_tools/blob/main/Student%20Mental%20Ohealth.csv)

Task	Start Time	End Time

TASK 2 : LOAD DATA

Task 3 : Understanding the data

Description: In this task you will explore the data to understand more before analyzing it.

- You can also break down your task into manageable action items.
- Add more sub-tasks as needed.

Task/ Sub-Task	Start Time	End Time
T1 - Print top 5 Data from the data set		
T2 - Display all the column from the data set		
T3 - Rename the columns with a suitable name		
T4 - Display data type for each column		
T5 - Find the number of null value for each column		

Task 4 : Visualize the data

Description: In this task you will visualize the data based on the scenario given.

- You can also break down your task into manageable action items.
- Add more sub-tasks as needed.

Deliverables	Start Time	End Time
Q1 - What was the depression rate in a bar plot.		
Q2 - What was the anxiety rate by gender in bar plot.		
Q3 - What was the depression rate by courses in bar plot form.		
Q4 - What is the distribution of		

student ages using distribution
plot.

Q5 - What are the panic attack
rates by age using distribution
plot.

Q6 - Use a box plot to display
depression rate by age

Q7 - Use bar plot to display
depression rate by cgpa

Q8 - Use bar plot to display
anxiety rate by cgpa

Q9 - Use bar plot to display
depression rate by current year
study

Q10 - What was the treatment
rate by depression rate and
gender? Understanding those
student who have depression are
seeking help for specialist
treatment.

THANK YOU