



NATIONAL PUBLIC SCHOOL, INDIRANAGAR

COMPUTER SCIENCE PRACTICAL ASSIGNMENT

INDEX

Grade: 12 – Term 1 - 2021 -22

Note: Programs should be menu driven and use functions wherever necessary.
Based on the user's choice, branch off to relevant functions.

		Teacher's Signature																								
	DATA FILE HANDLING IN PYTHON																									
	Binary file operations:																									
1	<p>Create a file Headset1.dat to store the following information of headsets: Code, Name, Price and Technology.</p> <p>Write Python functions to perform the following operations:</p> <ul style="list-style-type: none">display details of all those headsets whose price is from 10000 to 15000 in a tabular formatdisplay the number of Bluetooth technology modelsdisplay the highest and the least priced headsets in a neat formatAccept a product name and delete and display the updated table in a tabular format. <table><tr><th>Code</th><th>Name</th><th>Price</th><th>Technology</th></tr><tr><td>WX1000</td><td>Sony</td><td>15456</td><td>Bluetooth</td></tr><tr><td>HD800</td><td>Sennheiser</td><td>35000</td><td>Wired</td></tr><tr><td>DT990</td><td>Beyerdynamic</td><td>23000</td><td>Wired</td></tr><tr><td>PRO2</td><td>Plantronics</td><td>12000</td><td>Bluetooth</td></tr></table>	Code	Name	Price	Technology	WX1000	Sony	15456	Bluetooth	HD800	Sennheiser	35000	Wired	DT990	Beyerdynamic	23000	Wired	PRO2	Plantronics	12000	Bluetooth					
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2	<p>Create a binary file ElectricBike.dat to store the following information of bikes: Make, Model, Price, Range/Charge. Write Python functions to perform the following operations:</p> <ul style="list-style-type: none">display details of all those bikes whose Range is greater than or equal to 80Add a new bike by accepting the details given and display the changed details in a tabular format <table><tr><td>TVS</td><td>Creon</td><td>88000</td><td>85 km</td></tr></table> <ul style="list-style-type: none">accept the name of make as parameter and display the model name and price in a neat format. <table><tr><th>Make</th><th>Model</th><th>Price</th><th>Range/Charge</th></tr><tr><td>Hero</td><td>Electric Photon</td><td>72000</td><td>60 km</td></tr><tr><td>Bajaj</td><td>Chetak A Brand</td><td>85000</td><td>80 km</td></tr><tr><td>Hero</td><td>Electric Dash</td><td>68000</td><td>72 km</td></tr><tr><td>TVS</td><td>iQube</td><td>90000</td><td>75 km</td></tr></table>	TVS	Creon	88000	85 km	Make	Model	Price	Range/Charge	Hero	Electric Photon	72000	60 km	Bajaj	Chetak A Brand	85000	80 km	Hero	Electric Dash	68000	72 km	TVS	iQube	90000	75 km	
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