



DATE	CLASS	SUBJECT	TOPIC	ASSIGNMENT	WEBLINK				
15.6.21 TO 30.6.21	X	Chemistry	Hydrogen chloride	<ol style="list-style-type: none"> Name the chemicals used to prepare hydrogen chloride in lab. Why are these chemicals are preferred? Why is conc. Nitric acid not used? What is the drying agent used? Why phosphorus pentoxide is not used to dry HCl gas? State your observation when sodium chloride is heated with conc. Sulphuric acid in a flask. What do you observe when hydrogen chloride is exposed to air? Why? Write the equation for the lab. Preparation of HCl. Why is the temperature maintained below 200°C? How is the gas collected ? Why? How will you understand whether the gas jar is full with HCl or not? Which property of hydrogen chloride is demonstrated by fountain experiment? 					
14.06.21 To 26.06.21		Computer	Number System	<p>Program 1 A special two-digit number is such that when the sum of its digits is added to the product of its digits, the result is equal to the original two-digit number. Example: Consider the number 59. Sum of digits = $5 + 9 = 14$ Product of digits = $5 * 9 = 45$ Total of the sum of digits and product of digits = $14 + 45 = 59$ Write a program to accept a two-digit number. Add the sum of its digits to the product of its digits. If the value is equal to the number input, display the message "Special 2 - digit number" otherwise, display the message "Not a special two-digit number".</p> <p>Program 2. An air-conditioned bus charges fare from the passengers based on the distance travelled as per the tariff given below:</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Distance Travelled</th> <th>Fare</th> </tr> </thead> <tbody> <tr> <td>Up to 10 km</td> <td>Fixed charge Rs80</td> </tr> </tbody> </table>	Distance Travelled	Fare	Up to 10 km	Fixed charge Rs80	
Distance Travelled	Fare								
Up to 10 km	Fixed charge Rs80								

11 km to 20 km	Rs6/km
21 km to 30 km	Rs.5/km
31 km and above	Rs 4/km

Design a program to input distance travelled by the passenger. Calculate and display the fare to be paid.

Program 3.

Marks obtained in different subjects	Stream
Eng, Maths and Science $\geq 80\%$	Pure Science
Eng and Science $\geq 80\%$, Maths $\geq 60\%$	Bio. Science
Eng, Maths and Science $\geq 60\%$	Commerce

Print the appropriate stream allotted to a candidate. Write a program to accept marks in English, Maths and Science from the console.

Rakshmi

DIRECTOR ACADEMICS