

Python Assignment-1: Numerical Problems

1. Ravi has 48 chocolates and wants to distribute them equally among 6 children. Write a Python program to find the number of chocolates each child gets and the number of chocolates left.
2. A student scores 72, 81, and 69 in three subjects. Write a program to calculate the average marks.
3. Write a Python program to take a number from the user and print its square and cube.
4. A person buys items costing ₹245, ₹315, and ₹180. Write a program to calculate the total bill amount.
5. A video is 185 minutes long. Write a Python program to convert it into hours and remaining minutes.
6. An employee has a monthly salary of ₹32,000. Write a program to increase the salary by 10% and print the new salary.
7. A car travels 60 km per hour for 2.5 hours. Write a program to calculate the total distance travelled.
8. A shopkeeper has 145 pens and packs them into boxes of 12 pens each. Write a program to find the number of full boxes and pens left unpacked.
9. The temperature is 30°C. Write a Python program to convert it into Fahrenheit.
10. Electricity cost is ₹6 per unit. Write a program to calculate the bill amount if 275 units are consumed.
11. A road is 3750 meters long. Write a program to convert it into kilometers and remaining meters.
12. Write a program to calculate simple interest for Principal = ₹8000, Rate = 5%, Time = 2 years.
13. A cyclist covers 120 km in 3 hours. Write a program to calculate the average speed.
14. A student scores 412 marks out of 500. Write a program to calculate the percentage.
15. A book has 240 pages. A student reads 18 pages per day. Write a program to calculate number of days required and pages left on the last day.
16. If 1 USD = ₹83, write a program to convert 125 USD into Indian Rupees.
17. A factory produces 950 toys in a week. Write a program to calculate toys produced per day and extra toys left.

18. Write a program to calculate the value of 5 raised to the power 4.

19. A movie duration is 2 hours 45 minutes. Write a program to convert the total time into seconds.

20. Take two numbers from the user and print the result of division, floor division, and datatype of both results.