

1. Accept the value of A, B & C then calculate this formula.

$$R = \frac{6.5 (A + B)^2 - 7.3 (B + C)^{1/2}}{(A + C)^{1/2}}$$

2. Write a program to input the basic salary of a person. He get 15% of the basic as HRA, 15% of the basic as Conveyance allowance and 10% of the basic as Entertainment allowance. The total salary is calculated by adding Basic + HRA + Conveyance + Entertainment Allowance. Calculate and print the total salary of person.
3. A computer salesman gets commission on the following basis:

Sales	Commission Rate
Rs. 0 - 20,000	3%
Rs. 20,000 - 50,000	12%
Rs. 50,001 and more	31%

After accepting the sales as input, calculate and print his commission amount and rate of commission.

4. A library charges fine for books returned late. Following are the fines: first five days 40 paisa per day, Six to ten days 65 paisa per day, above 10 days 80 paisa per day. Design a program to calculate the fine assuming that a book is returned N days late.
 5. Accept a numbers and find out the given number is divisible by 5 or not, if not then print the nearest number from the given number which is divisible by 5.
 6. Program to check whether a number is a BUZZ number or not, a number is BUZZ if it is divisible by 7 and ends with 7.
 7. Using a switch case statement, write a menu driven program to convert a given temperature from Fahrenheit to Celsius and vice-versa. For an incorrect choice, an appropriate message should be displayed.
Hint: $c = 5/9 * (f - 32)$ and $f = 1.8 * c + 32$
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