Assignment

1. Length and breadth of a rectangle are taken as user input. Write a program to calculate the area and perimeter of the rectangle.

2. Write a program to calculate the perimeter of a triangle. Where the lengths of the sides are taken as user input.

3. Write a program to add 8 to the number 2345 and then divide it by 3. Now, the modulus of the quotient is taken with 5 and then multiply the resultant value by 5. Display the result.

4. Now, solve the above question using assignment operators (e.g. +=, -=, *=).

5. Write a program to check if the two numbers provided by users are equal.

6. Write a program to print the power of "x" raised to 5. Where x is taken from user.

7. Assign values of variables 'a' and 'b' as 55 and 70 respectively and then check if both the conditions 'a < 50' and 'a < b' are true.

8. Now solve the above question to check if at least one of the conditions 'a < 50' or 'a < b' is true.

9. Take the marks of a student obtained in 5 subjects (each out of 100), write a program to calculate total marks and percentage marks.

10. Suppose the values of variables 'a' and 'b' are 6 and 8 respectively, write two programs to swap the values of the two variables. 1 - first program by using a third variable 2 - second program without using any third variable (Swapping means interchanging the values of the two variables E.g.- If entered value of x is 5 and y is 10 then after swapping the value of x and y should become 10 and 5 respectively.)

11. Write a program to convert Fahrenheit into Celsius. Take Fahrenheit as input.

12. The total number of students in a class are 90 out of which 45 are boys. If 50% of the total students secured grade 'A' out of which 20 are boys, then write a program to calculate the total number of girls getting grade 'A'.

13. Write a program to calculate the sum of the first and the second last digit of a 5-digit provided by user. E.g.- NUMBER : 12345 OUTPUT : 1+4=5

14. Take a 4-digit number. Write a program to display a number whose digits are 2 greater than the corresponding digits of the number TAKEN. (the digits must be less than 8) e.g., if the number which was taken is 5696, then the displayed number should be 7818.

15. Write a program to calculate the sum of the digits of a 3-digit number. Number : 132   Output : 6

16. Write a program to reverse a 3-digit number. E.g.-Number: 132 Output : 231