|  |
| --- |
| 1. Write a program to accept principle, rate of interest and time. Calculate simple interest and display the same |
| 1. Write a Program to find out if a number is even or odd? |
| 1. Write a program to accept a student’s name and scores in three subject. Display the 1st, 2nd, average and total. Display whether the student has secured 1st , 2nd , pass class or has failed.1st class is for a score of 60 and above, 2nd class is for a score of 50 and above, while pass class is for a score of 35 and above. If the score is less than 35, then the student fails. |
| 1. 4 16 36 64.................N |
| 1. Write a program to accept name, empId, basic, special allowances, percentage of bonus and monthly tax saving investments. The gross monthly salary is basic+special allowances. Compute the annual salary. The gross annual salary also includes the bonus. Compute the annual net salary, by deducting taxes as suggested. a. Income upto 2.5 lakhs – exempted b. Income from 2.5 lakhs to 5 lakhs – 5% c. Income from 5 lakhs to 10 lakhs – 20% d. Income from 10 lakhs onwards – 30% However, if there is any tax saving investment, then there is further exemption of upto 1.5 lakhs annually. This would mean that by having tax saving investments of about 1.5 lakhs, an income of 4 lakhs is non-taxable. Display the annual gross, annual net and tax payable |
| 1. Write a program to display the series 1, 3, 7, 13, 21, 43, 57, 73, 91, 111, 157, 183, 211 .... N |
| 1. 1, 1, 2, 3, 5, 8, 13, … N |
| 1. Write a program to display the 1st , 2nd , and 4th multiple of 7 which gives the remainder 1 when divided by 2,3,4,5 and 6 |
| 1. Write the program to generate the following series where N which is upper limit should be taken as an input. Also, display the count of the numbers which have the digit ‘9’ in them |
| 1, 2, 6, 15, 31, 56 … N |
| 1. Accept the item code, description, qty and price of an item. Compute the total for the item. a. Accept the user’s choice. If the choice is ‘y’ then accept the next set of inputs for a new item and compute the total. In this manner, compute the grand total for all the items purchased by the customer. a. If the grand total is more than Rs. 10,000/‐ then, the customer is allowed a discount of 10%. b. If the grand total is less than Rs. 1,000/‐ and the customer chooses to pay by card, then a surcharge of 2.5% is levied on the grand total. c. Display the grand total for the customer in number form and in words " |
| 1. 1,4,7,12,23,......N |
| 1. 1,4,9,25,36,49,81,..N |
| 1. 1 -4 9 -16 25 -36 …N |
| 1. 1,2,4,6,7,10,10,14....N |
| 1. Write a program to find X ^ N (x to the power of n) without using in-built functions. Accept X and n. Display the result. |
| 1. Write a program to store N elements in an array of integer. Display the elements. Accept a number to be searched. Display whether the number is found or not in the array (LINEAR SEARCH). |
| 1. Write a program to store N elements in an array of integer. Display the elements. Sort the elements. Accept a number to be searched. Display whether the number is found or not in the array using BINARY SEARCH. |
| 1. Write a program to store elements into a N \* N matrix of integer. Display whether it is an identity matrix or not |
| 1. Write a program to store elements into a N \* N matrix of integer. Display whether it is a symmetric matrix or not |
| 1. Write a program to store elements into a M \* N matrix of integer. Display the matrix and its transpose |
| 1. \* \*\*\* \*\*\*\* \*\*\*\*\* |
| 1. Write the program to generate the following series 800, 802, 806, 812, 820,830, 842, 856, 872, 890, 910, 932, 956, 982 ... N Add the sum of digits of each number in the above series. Display each sum number. Ex. 800 = 8 + 0 + 0 = 8 806 = 8 + 0 + 6 = 14 Display how many of these sum numbers have the digit 1. If N is 900, the output of the program should be as follows: 800 802 806 812 820 830 842 856 872 890 8 10 14 11 10 11 14 19 17 17 The count of the sum numbers which have the digit 1 = 9. |