

Program Practice For Lecture 2

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1. Write a program to use Left shift (<<) and Right Shift (>>) operator.
 2. Show the expression that is true or false and print (example: true = 1 and False = 2) their value.
 3. Write a program to solve the area of circle and take the value of radius from keyboard and using **constant** keyword for π . [Hints: Circle = πr^2]
 4. Take two integer value and output their average [Hints: using cast operator]
 5. Take two integer value and output their First integer value and total sum. just like
`printf("%d %d", x, x+y);`
 6. Shows the use of integer arithmetic to convert a given number of days into months and days. [Hints: use / and % operator]
 7. Write a program to read a 6 digit integer and print the sum of its digits. [Hints: use / and % operator]
 8. Write a program which take a number from user & determine whether it is divisible by 2, 3 and 5.
 9. Write a program which take a value from keyboard and show even or odd evaluating the value.
 10. Write a program which takes seconds as input and display equivalent hours, minutes and remaining seconds as output.
 11. Write a program to read the price of item in decimal from [eg. 8.38] . separate taka & paisa from given values [eg 8 taka and 38 paisa] .
 12. A point on the circumference of a circle whose center is (0,0) in (4,5). write a program to compute perimeter & area of this circle.
 13. Write a program which can determine whether a character is vowel or constant.
 14. An electricity board charges the following rates to domestic users to discourage large consumption of energy:
 - For first 100 units – .60tk per unit.
 - For second 200 units – .80tk per unit.
 - Beyond 300 units – .90tk per unit.
- All users are charged a minimum of 50.00tk if the total amount is more than 300.00tk then an additional surcharge of 15% will be added. Write a program to read the names of users & number of units consumed and print out the charges.**

15. write a program that take two numbers and an operator and calculate the result according to the following conditions.

| Operators | Result |
|-----------|-----------|
| ' + ' | Add |
| ' - ' | Subtract |
| ' * ' | Multiply |
| ' / ' | Divide |
| ' % ' | Remainder |

[Hints: use **if.....else** statement to solve it]

16. write a program to solve the 15 no. problem by using **Switch** statement.

17. write a program to calculate grade of a student according to the following condition

| Marks | Grade |
|-----------|-----------------|
| 80 to 100 | Honors |
| 60 to 79 | First Division |
| 50 to 59 | Second Division |
| 40 to 49 | Third Division |
| 0 to 39 | Fail |

[Hints: use **Switch** statement to solve the program]

18. write a program to solve the 17 no. problem by using **if.....else** statement.

19. take two value and show which is grater or smaller than other and off course equal.

Hints: use nested **if.....else** statement to solve it]

20. take a value and show that it is positive or negative or zero.

21. take a character and show that is uppercase or lowercase.

Happy Coding.....