

Write following C program.

(Note: Write down following programs in C Journal with Flowchart displayed with yellow background colour)

(Last date for journal submission: 06/10/2008)

- (1) Write a C program to calculate sum of two integers numbers and print it.
- (2) Write a C Program to display square and cube of a number.
- (3) Write a C Program to find area of circle.
- (4) Write a C Program to interchange values of two number using third variable.
- (5) Write a C Program to interchange values of two number without using third variable.
- (6) Write a C Program to convert Km value into meter value.
- (7) Write a C Program to convert Kg value into gram value.
- (8) Write a C Program to input all marks of all the subjects and display total and percentage.
- (9) Write a C Program to input quantity and price of an item and display total Rs. on screen. Also input discount (%) and display final payment Rs. on screen.
- (10) Write a C Program to input total selling of salesman and calculate 25% commission on selling and display it.

(11) Write a C Program to print the first letter of your name using special character.

(12) Write a C Program to print only your name using special character.

(13) Write a C Program to accept any character from user and display its ASCII number on screen.

(14) Write a C Program to input any ASCII number and display appropriate character on screen.

(15) Write a C Program to find area of a rectangle (Hint : $A = l*b$)

(16) Write a C Program to find area of a triangle (Hint : $A = \frac{1}{2} *h*b$)

(17) Write a C Program to input any Capital letter and display it with small letter.

(18) Write a C Program to input any Small letter and display it with capital letter.

(19) Write a C Program to input three digits number from user and calculate sum of first and last numbers.

(Hint : I/p : 358 O/p :11)

(20) Write a C Program to input three digits number from user and display square of first and last numbers.

(Hint : I/p : 358 O/p : Square of 3 is 9 and Square of 8 is 64)

(21) Write a C Program to convert Celsius value into Fahrenheit value. (Formula : $F = \frac{9C}{5} + 32$)

(22) Write a C Program to convert Fahrenheit value into Celsius value.

(23) Write a C Program to input your birth day, month and year in numeric format and display total days as a output.

(24) Write a C Program to input two digits number from user and display with reverse number on screen (Hint : I/P : 32 O/P : 23)

❁ If statement programs

- (1) Write a C Program to display greater number from two numbers.
- (2) Write a C Program to input price, quantity of an item from user and display final payment according to following condition.
 - a. If total purchase is greater than 1000 Rs. then calculate discount 15% otherwise calculate 10% of total rs.
- (3) Write a C Program to accept marks of all the subjects and display total marks, percentage and result whether the student is pass or fail. (Passing mark is 40)
- (4) Write a C Program to accepts marks of all the subjects and display total marks, percentage, class and result whether the student is pass or fail. (Passing mark is 40) .
- (5) Write a C Program to check whether the enter year is leap year or not.
- (6) Write a C Program to check whether the enter number is odd or even.
- (7) Write a C Program to input two number from keyboard and check whether the first number is divisible by second number.
- (8) Write a C Program to enter any character from user and if that character is capital letter then display it with small letter on screen and if enter character is small letter then display with Capital letter.

(9) Write a C Program to input any value from user and check that the enter value is Capital letter, Small letter, digit or special symbol.

(10) Write a C Program to display greatest number from three numbers.

(11) Write a C Program to input day in number and display in text format (Hint : I/P : 1 O/P : Monday)

(12) Write a C Program to input month in number and display in text format (Hint : I/P : 1 O/P : January)

(13) write a C program to check whether the given number is positive ,negative or zero ?

(14) Write a C Program to read any single character from user and check whether that character is number or not using conditional operator.

(15) Write a C Program to display smallest number from three numbers.

(16) Write a C Program to display highest number from three numbers using AND logical operator.

(17) Write a C Program to read any character from user and check whether that character is vowel or not. using conditional operator.

(a,e,i,o,u character are called vowel)

switch case statement programs

- (1) Write a C Program to input month number and print it in a text format using switch case statement.
- (2) Write a C Program to input any character and check whether enter character is vowel or consonant.
- (3) Write a C Program to input two numbers and mathematical operator from user and perform operation on enter numbers according to operator using switch case statement. (Operator like : + , - , * , / , %
(This type of program is also called menu driven program.)
- (4) Write a C Program to input only single number from 1 to 10 from user and check whether number is odd or even using switch case statement.
- (5) Write a C Program to input your subject code and display subject name on screen using switch case statement.

(Hint : I/p : 103 O/p : Programming in C)

(Last date for submission of following program : 28/11/2008)

Note : I will check your following programs in your lab timing on Computer.
(Ashwin R. Dobariya)

Loop structure programs

- (1) Write a C Program to print first 10 natural number with its square and cube.
- (2) W.A.P. to find out factorial value of given number.
- (3) W.A.P. to accept two integer numbers from user and calculate its power value. [e.g. Input x and y and display answer of x^y]
- (4) W.A.P. to display sum of first ten numbers.

- (5) W.A.P. to accept 10 numbers from user one by one and displays its total value on screen.
- (6) WAP to generate Armstrong series up to user choice.
- (7) WAP to generate Fibonancy series up to user choice.

Write a C Program to display following different triangle.

(1)

```
*
**
***
****
*****
```

(2)

```
      *
     **
    ***
   ****
  *****
```

(3)

```
          *
         **
        ***
       ****
      *****
```

(4)

```
* * * * *
 * * * * *
  * * * *
   * * *
    * *
     *
```

(5)

```
      *
     * *
    * * *
   * * * *
  * * * * *
```

(6)

```
* * * * *
 * * * *
  * * *
   * *
    *
```

Note : Write a program of following triangle with different shapes like program (1) To (6).

(7)

```
1
1 2
1 2 3
1 2 3 4
1 2 3 4 5
```

(8)

```
1 2 3 4 5
1 2 3 4
1 2 3
1 2
1
```

(9)

```
1
2 2
3 3 3
```

(10)

```
5 5 5 5 5
4 4 4 4
3 3 3
```

4 4 4 4
5 5 5 5 5

2 2
1

(11)

(12)

A
A B
A B C
A B C D
A B C D E

A B C D E
A B C D
A B C
A B
A

(13)

(14) Floy'd Triangle

1
0 1
1 0 1
0 1 0 1
1 0 1 0 1

1
2 3
4 5 6
7 8 9 10
11 12 13 14 15