

# C Programming

## Logic Based Programming

**ShreeSoft**  
**INFORMATICS**

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### Simple Program Based on Formula

- 1) WAP to print some message on screen.
- 2) WAP to Perform Arithmetic Operations on two Number.
- 3) WAP to calculate area of circle
- 4) WAP to calculate area of triangle
- 5) WAP to read marks of 3 subject of student and calculate his total and average.
- 6) WAP to read distance in KM and convert it in to meter, cm, inches and feet
- 7) WAP to read temperature in Celsius or centigrade and convert it into Fahrenheit. ( $f=1.8*c+32$ )
- 8) WAP to read temperature in Fahrenheit and convert it into Celsius or centigrade.
- 9) WAP to swap or interchange the content of two variable.
- 10) WAP to swap or interchange the content of two variable without third variable.
- 11) WAP to calculate square root of given number (math.h)
- 12) WAP to calculate nth power of x (math.h)
- 13) WAP to calculate Simple Interest. ( $SI=P*T*R/100$ )
- 14) WAP to calculate Compound Interest. ( $CI=p(1+R/100)^t$ )

### Program Based on if else (Handling Two decisions)

- 15) WAP to check the given number is EVEN or ODD
- 16) WAP to Check the given triangle is valid or invalid
- 17) WAP to read two number and find maximum
- 18) WAP to read two number and find minimum

### Program Based on Conditional Operator

- 19) WAP to check the given number is EVEN or ODD
- 20) WAP to Check the given triangle is valid or invalid
- 21) WAP to read two number and find maximum
- 22) WAP to read two number and find minimum

### Program Based on Ladder if else if (Handling more than 2 decisions)

#### Program based on handling 3 decision using Ladder if else if

- 23) WAP to check the given number is Positive, Negative or Zero.
- 24) WAP to read 3 number and find maximum
- 25) WAP to read 3 number and find minimum

#### Program based on handling 3 decision using conditional Operator

- 26) WAP to check the given number is Positive, Negative or Zero.
- 27) WAP to read 3 number and find maximum
- 28) WAP to read 3 number and find minimum

### **Program based on handling more than 3 decision (multiple)**

#### **Using Ladder if else if**

- 29) WAP to read percentage marks of student and print their class.
- 30) WAP to read number between 0 to 9 and print it in words
- 31) Write a menu driven program to perform Arithmetic Operation on 2 numbers.



### **Program Based on Nested if else**

- 32) WAP to check the given number is EVEN or ODD

### **Program Based on switch case (Handling more than 2 decisions)**

- 33) WAP to read number between 0 to 9 and print it in words
- 34) Write a menu driven program to perform Arithmetic Operation on 2 numbers.

### **Program Based on goto Statement**

- 35) WAP to demonstrate the goto statement
- 36) WAP to demonstrate the goto statement with infinite execution

### **Loop Creation Using Simple if and goto statement**

- 37) WAP to print your name on 15 lines
- 38) WAP to print 1 to n number
- 39) WAP to print 1 to n number in reverse order
- 40) WAP to sum of first n number along with average

### **Program Based on while loop**

- 41) WAP to print your name on 15 lines
- 42) WAP to print 1 to n number
- 43) WAP to print 1 to n number in reverse order
- 44) WAP to sum of first n number along with average

### **Program Based on do while loop**

- 45) WAP to print your name on 15 lines
- 46) WAP to print 1 to n number
- 47) WAP to print 1 to n number in reverse order
- 48) WAP to sum of first n number along with average

### **Program Based on any control statement (Mixed Program)**

- 49) WAP to sum of first n even number along with average
- 50) WAP to sum of first n Odd number along with average
- 51) WAP to print the table of given number
- 52) WAP to print 1 to 20 table on screen
- 53) Write a menu driven program to perform Arithmetic Operation on 2 numbers until given choice exit.
- 54) WAP to read n different numbers and calculate sum and average

- 55) WAP to read n different numbers and count no. of even and Odd  
 56) WAP to read n different numbers and count no. of Positive and Negative number.  
 57) WAP to read n different numbers and Find Maximum and Minimum  
 58) WAP to calculate factorial of given number  
 59) WAP to calculate nth power of x ( $X^n$ )  
 60) WAP to print Fibonacci Series up to n terms.  
 61) WAP to calculate sum of digit of given number  
 62) WAP to calculate sum of digit of given number until sum is single digit  
 63) WAP to count number of digit in given number.  
 64) WAP to read number and print its reverse number.  
 65) WAP to check the given number is Palindrome or not  
 66) WAP to check the number is prime or not  
 67) WAP to check the number is perfect or not  
 68) WAP to check the number is Armstrong or not  
 69) WAP to check the number is Strong or not  
 70) WAP to find Prime Numbers between 1 to n.  
 71) WAP to find Perfect Numbers between 1 to n  
 72) WAP to find Armstrong Numbers between 1 to n  
 73) WAP to find Strong Numbers between 1 to n  
 74) WAP to convert Decimal to Binary number system  
 75) WAP to convert Decimal to Octal number system  
 76) WAP to convert Binary to Decimal number system  
 77) WAP to convert Binary to Octal number system

## Program Based on For loop

### Star Pattern Program

78) \* \* \* \* \*  
 \* \* \* \* \*  
 \* \* \* \* \*  
 \* \* \* \* \*  
 \* \* \* \* \*

79) \*  
 \* \*  
 \* \* \*  
 \* \* \* \*  
 \* \* \* \* \*

80) \* \* \* \* \*  
 \* \* \* \*  
 \* \* \*  
 \* \*  
 \*

81) \*  
 \* \*  
 \* \* \*  
 \* \* \* \*  
 \* \* \* \* \*

82) \* \* \* \* \*  
 \* \* \* \*  
 \* \* \*  
 \* \*  
 \*

83) \*  
 \* \*  
 \* \* \*  
 \* \* \* \*  
 \* \* \* \* \*

84) A  
A B  
A B C  
A B C D  
A B C D E

86) 1  
1 2  
1 2 3  
1 2 3 4  
1 2 3 4 5

88) 1  
2 3  
4 5 6  
7 8 9 10  
11 12 13 14

89) 1  
0 1  
1 0 1  
0 1 0 1  
1 0 1 0 1

85) A  
B B  
C C C  
D D D D  
E E E E E

87) 1  
2 2  
3 3 3  
4 4 4 4  
5 5 5 5 5

88) 1  
1 0  
1 0 1  
1 0 1 0  
1 0 1 0 1