1. Write a program to check a number is divisible by 7 or not.
2. Write a program to check a number is factor of 84 or not.
3. Write a program to check a number is factor of 96 or not.

and if the given number is more Than 96 program should say ‘not a valid input’

1. Write a program to check a number is multiple of 3 or not.
2. Write a program to check a number is positive or not.
3. Write a program to check a number is having 4 at units place (984).
4. Write a program to check a number is 3 digited number or not.
5. Write a program to print even or odd for a given number
6. Write a program to print the greatest number in given two numbers
7. Write a program to print the least number in given two numbers
8. Write a program to print the given two numbers in ascending order
9. Write a program to print the given two numbers in descending order
10. Write a program to print the greatest number in given three numbers
11. Write a program to print the least number in given three numbers
12. Write a program to print the given three numbers in ascending order
13. Write a program to print the given three numbers in descending order
14. Write a program to take marks of three subjects and print the grade of student

EXTRAS

Write a program to check whether a number is a perfect square.

Write a program to check whether a number is a perfect cube.

Write a program to check whether an array contains a perfect square and is also an odd number at the last index.

Write a program to print only the multiples of 2 and 3 between 1 and 50.

Write a program to check whether an array contains strings.

Write a program to print only those numbers from an array that contain 2 or 4 in the unit's place.

Write a program to check whether all the numbers in an array are prime or not.

Write a program to check whether any string in an array has the letter 'i' in it.

Write a program to check whether the first and last elements in an array are boolean values.

Write a program to print all the multiples of 2 that don't contain 0 at the unit's place between 1 and 50.

w3resource logo

## C Conditional Statement [26 exercises with solution]

[*An editor is available at the bottom of the page to write and execute the scripts.*]

**1.** Write a C program to accept two integers and check whether they are equal or not. [Go to the editor](https://www.w3resource.com/c-programming-exercises/conditional-statement/index.php#editorr)

Test Data : 15 15

*Expected Output* :

Number1 and Number2 are equal

[Click me to see the solution](https://www.w3resource.com/c-programming-exercises/conditional-statement/c-conditional-statement-exercises-1.php)

**2.** Write a C program to check whether a given number is even or odd. [Go to the editor](https://www.w3resource.com/c-programming-exercises/conditional-statement/index.php#editorr)

Test Data : 15

*Expected Output* :

15 is an odd integer

[Click me to see the solution](https://www.w3resource.com/c-programming-exercises/conditional-statement/c-conditional-statement-exercises-2.php)

**3.** Write a C program to check whether a given number is positive or negative. [Go to the editor](https://www.w3resource.com/c-programming-exercises/conditional-statement/index.php#editorr)

Test Data : 15

*Expected Output* :

15 is a positive number

[Click me to see the solution](https://www.w3resource.com/c-programming-exercises/conditional-statement/c-conditional-statement-exercises-3.php)

**4.** Write a C program to find whether a given year is a leap year or not. [Go to the editor](https://www.w3resource.com/c-programming-exercises/conditional-statement/index.php#editorr)

Test Data : 2016

*Expected Output* :

2016 is a leap year.

[Click me to see the solution](https://www.w3resource.com/c-programming-exercises/conditional-statement/c-conditional-statement-exercises-4.php)

**5.** Write a C program to read the age of a candidate and determine whether it is eligible for casting his/her own vote. [Go to the editor](https://www.w3resource.com/c-programming-exercises/conditional-statement/index.php#editorr)

Test Data : 21

*Expected Output* :

Congratulation! You are eligible for casting your vote.

[Click me to see the solution](https://www.w3resource.com/c-programming-exercises/conditional-statement/c-conditional-statement-exercises-5.php)

**6.** Write a C program to read the value of an integer m and display the value of n is 1 when m is larger than 0, 0 when m is 0 and -1 when m is less than 0. [Go to the editor](https://www.w3resource.com/c-programming-exercises/conditional-statement/index.php#editorr)

Test Data : -5

*Expected Output* :

The value of n = -1

[Click me to see the solution](https://www.w3resource.com/c-programming-exercises/conditional-statement/c-conditional-statement-exercises-6.php)

**7.** Write a C program to accept the height of a person in centimeter and categorize the person according to their height. [Go to the editor](https://www.w3resource.com/c-programming-exercises/conditional-statement/index.php#editorr)

Test Data : 135

*Expected Output* :

The person is Dwarf.

[Click me to see the solution](https://www.w3resource.com/c-programming-exercises/conditional-statement/c-conditional-statement-exercises-7.php)

**8.** Write a C program to find the largest of three numbers. [Go to the editor](https://www.w3resource.com/c-programming-exercises/conditional-statement/index.php#editorr)

Test Data : 12 25 52

*Expected Output* :

1st Number = 12, 2nd Number = 25, 3rd Number = 52

The 3rd Number is the greatest among three

[Click me to see the solution](https://www.w3resource.com/c-programming-exercises/conditional-statement/c-conditional-statement-exercises-8.php)

**9.** Write a C program to accept a coordinate point in a XY coordinate system and determine in which quadrant the coordinate point lies. [Go to the editor](https://www.w3resource.com/c-programming-exercises/conditional-statement/index.php#editorr)

Test Data : 7 9

*Expected Output* :

The coordinate point (7,9) lies in the First quadrant.

[Click me to see the solution](https://www.w3resource.com/c-programming-exercises/conditional-statement/c-conditional-statement-exercises-9.php)

**10.** Write a C program to find the eligibility of admission for a professional course based on the following criteria: [Go to the editor](https://www.w3resource.com/c-programming-exercises/conditional-statement/index.php#editorr)

Eligibility Criteria : Marks in Maths >=65 and Marks in Phy >=55 and Marks in Chem>=50 and Total in all three subject >=190 or Total in Maths and Physics >=140 ------------------------------------- Input the marks obtained in Physics :65 Input the marks obtained in Chemistry :51 Input the marks obtained in Mathematics :72 Total marks of Maths, Physics and Chemistry : 188 Total marks of Maths and Physics : 137 The candidate is not eligible.

*Expected Output* :

The candidate is not eligible for admission.

[Click me to see the solution](https://www.w3resource.com/c-programming-exercises/conditional-statement/c-conditional-statement-exercises-10.php)

**11.** Write a C program to calculate the root of a Quadratic Equation. [Go to the editor](https://www.w3resource.com/c-programming-exercises/conditional-statement/index.php#editorr)

Test Data : 1 5 7

*Expected Output* :

Root are imaginary;

No solution.

[Click me to see the solution](https://www.w3resource.com/c-programming-exercises/conditional-statement/c-conditional-statement-exercises-11.php)

**12.** Write a C program to read roll no, name and marks of three subjects and calculate the total, percentage and division. [Go to the editor](https://www.w3resource.com/c-programming-exercises/conditional-statement/index.php#editorr)

Test Data :

Input the Roll Number of the student :784

Input the Name of the Student :James

Input the marks of Physics, Chemistry and Computer Application : 70 80 90

*Expected Output* :

Roll No : 784

Name of Student : James

Marks in Physics : 70

Marks in Chemistry : 80

Marks in Computer Application : 90

Total Marks = 240

Percentage = 80.00

Division = First

[Click me to see the solution](https://www.w3resource.com/c-programming-exercises/conditional-statement/c-conditional-statement-exercises-12.php)

**13.** Write a C program to read temperature in centigrade and display a suitable message according to temperature state below : [Go to the editor](https://www.w3resource.com/c-programming-exercises/conditional-statement/index.php#editorr)

Temp < 0 then Freezing weather

Temp 0-10 then Very Cold weather

Temp 10-20 then Cold weather

Temp 20-30 then Normal in Temp

Temp 30-40 then Its Hot

Temp >=40 then Its Very Hot

Test Data :

42

*Expected Output* :

Its very hot.

[Click me to see the solution](https://www.w3resource.com/c-programming-exercises/conditional-statement/c-conditional-statement-exercises-13.php)

**14.** Write a C program to check whether a triangle is Equilateral, Isosceles or Scalene. [Go to the editor](https://www.w3resource.com/c-programming-exercises/conditional-statement/index.php#editorr)

Test Data :

50 50 60

*Expected Output* :

This is an isosceles triangle.

[Click me to see the solution](https://www.w3resource.com/c-programming-exercises/conditional-statement/c-conditional-statement-exercises-14.php)

**15.** Write a C program to check whether a triangle can be formed by the given value for the angles. [Go to the editor](https://www.w3resource.com/c-programming-exercises/conditional-statement/index.php#editorr)

Test Data :

40 55 65

*Expected Output* :

The triangle is not valid.

[Click me to see the solution](https://www.w3resource.com/c-programming-exercises/conditional-statement/c-conditional-statement-exercises-15.php)

**16.** Write a C program to check whether a character is an alphabet, digit or special character. [Go to the editor](https://www.w3resource.com/c-programming-exercises/conditional-statement/index.php#editorr)

Test Data :

@

*Expected Output* :

This is a special character.

[Click me to see the solution](https://www.w3resource.com/c-programming-exercises/conditional-statement/c-conditional-statement-exercises-16.php)

**17.** Write a C program to check whether an alphabet is a vowel or consonant. [Go to the editor](https://www.w3resource.com/c-programming-exercises/conditional-statement/index.php#editorr)

Test Data :

k

*Expected Output* :

The alphabet is a consonant.

[Click me to see the solution](https://www.w3resource.com/c-programming-exercises/conditional-statement/c-conditional-statement-exercises-17.php)

**18.** Write a C program to calculate profit and loss on a transaction. [Go to the editor](https://www.w3resource.com/c-programming-exercises/conditional-statement/index.php#editorr)

Test Data :

500 700

*Expected Output* :

You can booked your profit amount : 200

[Click me to see the solution](https://www.w3resource.com/c-programming-exercises/conditional-statement/c-conditional-statement-exercises-18.php)

**19.** Write a program in C to calculate and print the Electricity bill of a given customer. The customer id., name and unit consumed by the user should be taken from the keyboard and display the total amount to pay to the customer. The charge are as follow : [Go to the editor](https://www.w3resource.com/c-programming-exercises/conditional-statement/index.php#editorr)

| **Unit** | **Charge/unit** |
| --- | --- |
| upto 199 | @1.20 |
| 200 and above but less than 400 | @1.50 |
| 400 and above but less than 600 | @1.80 |
| 600 and above | @2.00 |

If bill exceeds Rs. 400 then a surcharge of 15% will be charged and the minimum bill should be of Rs. 100/-

Test Data :

1001

James

800

*Expected Output* :

Customer IDNO :1001

Customer Name :James

unit Consumed :800

Amount Charges @Rs. 2.00 per unit : 1600.00

Surchage Amount : 240.00

Net Amount Paid By the Customer : 1840.00

[Click me to see the solution](https://www.w3resource.com/c-programming-exercises/conditional-statement/c-conditional-statement-exercises-19.php)

**20.** Write a program in C to accept a grade and declare the equivalent description : [Go to the editor](https://www.w3resource.com/c-programming-exercises/conditional-statement/index.php#editorr)

| **Grade** | **Description** |
| --- | --- |
| E | Excellent |
| V | Very Good |
| G | Good |
| A | Average |
| F | Fail |

Test Data :

Input the grade :A

*Expected Output* :

You have chosen : Average

[Click me to see the solution](https://www.w3resource.com/c-programming-exercises/conditional-statement/c-conditional-statement-exercises-20.php)

**21.** Write a program in C to read any day number in integer and display day name in the word. [Go to the editor](https://www.w3resource.com/c-programming-exercises/conditional-statement/index.php#editorr)

Test Data :

4

*Expected Output* :

Thursday

[Click me to see the solution](https://www.w3resource.com/c-programming-exercises/conditional-statement/c-conditional-statement-exercises-21.php)

**22.** Write a program in C to read any digit, display in the word. [Go to the editor](https://www.w3resource.com/c-programming-exercises/conditional-statement/index.php#editorr)

Test Data :

4

*Expected Output* :

Four

[Click me to see the solution](https://www.w3resource.com/c-programming-exercises/conditional-statement/c-conditional-statement-exercises-22.php)

**23.** Write a program in C to read any Month Number in integer and display Month name in the word. [Go to the editor](https://www.w3resource.com/c-programming-exercises/conditional-statement/index.php#editorr)

Test Data :

4

*Expected Output* :

April

[Click me to see the solution](https://www.w3resource.com/c-programming-exercises/conditional-statement/c-conditional-statement-exercises-23.php)

**24.** Write a program in C to read any Month Number in integer and display the number of days for this month. [Go to the editor](https://www.w3resource.com/c-programming-exercises/conditional-statement/index.php#editorr)

Test Data :

7

*Expected Output* :

Month have 31 days

[Click me to see the solution](https://www.w3resource.com/c-programming-exercises/conditional-statement/c-conditional-statement-exercises-24.php)

**25.** Write a program in C which is a Menu-Driven Program to compute the area of the various geometrical shape. [Go to the editor](https://www.w3resource.com/c-programming-exercises/conditional-statement/index.php#editorr)

Test Data :

1

5

*Expected Output* :

The area is : 78.500000

[Click me to see the solution](https://www.w3resource.com/c-programming-exercises/conditional-statement/c-conditional-statement-exercises-25.php)

**26.** Write a program in C which is a Menu-Driven Program to perform a simple calculation. [Go to the editor](https://www.w3resource.com/c-programming-exercises/conditional-statement/index.php#editorr)

Test Data :

10

2

3

*Expected Output* :

The Multiplication of 10 and 2 is: 20

[Click me to see the solution](https://www.w3resource.com/c-programming-exercises/conditional-statement/c-conditional-statement-exercises-26.php)