<u>C++ Programming Exercises (if...else & switch...case)</u>

1. Write a C++ program to accept two integers and check whether they are equal or not.
Test Data : 15 15
Expected Output :
Number1 and Number2 are equal
2. Write a C++ program to check whether a given number is even or odd.
Test Data : 15
Expected Output :
15 is an odd integer
3. Write a C++ program to check whether a given number is positive or negative.
Test Data: 15
Expected Output:
15 is a positive number
4. Write a C++ program to find whether a given year is a leap year or not.
Test Data : 2016
Expected Output :
2016 is a leap year.

5. Write a C++ program to read the age of a candidate and determine whether he

is eligible to cast his/her own vote.

Test Data: 21

Expected Output:

Congratulation! You are eligible for casting your vote.

6. Write a C++ program to find the largest of three numbers.

Test Data: 12 25 52

Expected Output:

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

The 3rd Number is the greatest among three

7. Write a C++ program to determine eligibility for admission to a professional course based on the following criteria: Go to the editor

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.

8. Write a C++ program to read the roll no, name and marks of three subjects and calculate the total, percentage and division.

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
9. Write a C++ program to read temperature in centigrade and display a suitable message according to the temperature state below:
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.

10. Write a C++ program to check whether a character is an alphabet, digit or special character.
Test Data :
@
Expected Output :
This is a special character.
11. Write a C++ program to check whether an alphabet is a vowel or a consonant.
Test Data :
k
Expected Output :
The alphabet is a consonant.
12. 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 captured from the keyboard to display the total amount to be paid to the customer.
The charge are as follow:
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

13. Write a program in C++ to accept a grade and declare the equivalent description :

Grade Description

E Excellent

V Very Good

G Good

A Average

F	Fail
Test	Data :
Inpu	it the grade :A
Ехре	ected Output :
You	have chosen : Average
	Write a C++ program to read any day number in integer and display the day le in word format.
Test	Data :
4	
Ехре	ected Output :
Thu	rsday
	Write a C++ program for reading any Month Number and displaying the other name as a word.
Test	Data:
4	
Expe	ected Output :
Apri	I
	Write a program in C++ to read any Month Number in integer and display the obsertion ber of days for this month.
Test	Data:
7	
Ехре	ected Output :

Month have 31 days

17. Write a program in C++ which is a Menu-Driven Program to perform a simple calculation of addition, subtraction, multiplication, division. (calculator project)