C++ MANUAL

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# Practical 1.

Q)Program to convert Celsius to Fahrenheit in C++

#include <iostream>

**int** main () {

**float** fahren, celsius;

**printf** ("Enter the temperature in celsius\n");

**scanf** ("%f", &celsius);

    fahren = (9.0/5.0) \* celsius + 32;

**printf** ("%.2fC is equal to %.2fF\n", celsius, fahren);

**return** 0;

}

2)C++ Program to calculate Simple Interest

#include<iostream>

using namespace std;

int main()

{

// declare variables

float p, t, r, interest;

// take input from end-user

cout << "Enter principal amount, time and rate:";

cin >> p >> t >> r;

// calculate interest

interest = (p\*t\*r)/100;

// display result

cout << "Interest = " << interest << endl;

return 0;

}

Practical 2.

Q) C++ Program to print whether number entered is positive or negative.

#include <iostream>

using namespace std;

int main()

{

signed long num1 = 0;

cout << "\n\n Check whether a number is positive, negative or zero :\n";

cout << "-----------------------------------------------------------\n";

cout << " Input a number : ";

cin >> num1;

if(num1 > 0)

{

cout << " The entered number is positive.\n\n";

}

else if(num1 < 0)

{

cout << " The entered number is negative.\n\n";

}

else

{

std::cout << " The number is zero.\n\n";

}

return 0;

}

2) C++ Program to check whether number is even or odd

#include <iostream>

using namespace std;

int main() {

int n;

cout << "Enter an integer: ";

cin >> n;

if ( n % 2 == 0)

cout << n << " is even.";

else

cout << n << " is odd.";

return 0;

}

3)WAP in C++ to assigning grades (A,B,C) based on marks obtained by a student.

#include<iostream>

using namespace std;

int main()

{

int i;

float mark, sum=0, avg;

cout<<"Enter Marks obtained in 5 Subjects: ";

for(i=0; i<5; i++)

{

cin>>mark;

sum = sum+mark;

}

avg = sum/5;

cout<<"\nGrade = ";

if(avg>=76 && avg<=100)

cout<<"A1";

else if(avg>=66 && avg<75)

cout<<"B";

else if(avg>=01 && avg<65)

cout<<"C";

return 0;

}

4) WAP to do the following:

(1) Generate the following menu:

i. Add two numbers.

ii. Subtract two number.

iii. Multiply two numbers.

iv. Divide two numbers.

v. Exit. (2)Ask the user to input two integers and then input a choice from the menu. Perform all the arithmetic operations which have been offered by menu. Check for errors caused due to inappropriate entry by user and output a statement accordingly.

#include <stdio.h>

int main()

{

int num1, num2;

int sum, sub, mult, mod;

float div;

printf("Input any two numbers separated by comma : ");

scanf("%d,%d", &num1, &num2);

sum = num1 + num2;

sub = num1 - num2;

mult = num1 \* num2;

div = (float)num1 / num2;

mod = num1 % num2;

printf("The sum of the given numbers : %d\n", sum);

printf("The difference of the given numbers : %d\n", sub);

printf("The product of the given numbers : %d\n", mult);

printf("The quotient of the given numbers : %f\n", div);

printf("MODULUS = %d\n", mod);

return 0;

}