

**Submitted by:**

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**Class:**

ME-15 (B)

**Computer programming C++**

#include <iostream>

using namespace std;

int main () {

// Task 1:

double U,M; // This step makes two variables

U=1;

double F=6; // This step is used to find the factorial

M=F\*(H+1)\*(H+2)\*(H+3)\*(H+4); // This is the factorial formula needed

cout<<"The factorial of 6 is: "<<M<<endl; // This step displays the answer

// Task 2:

double x1,x2,y1,y2; // This step creates 4 variables for the input

// This step asks the user for the values of x1,x2

cout<<"Enter values for (x1,x2):"<<endl;

cin>>x1>>x2;

// This step is used to input the values of y1,y2

cout<<"Enter values for (y1,y2):"<<endl;

cin>>y1>>y2;

// This step uses the formula for d

double d = (x2-x1)\*(x2-x1)+(y2-y1)\*(y2-y1);

cout<<"The distance between those points is:"<<d<<endl;

// TASK 3:

double

L=0

cout<<"Enter your length (cm):"<<endl;

cin>>L;

// These 2 steps assign a variable and then apply the formulas

double m = length/100;

double k = length /100000;

// For output in meter and km

cout<<"Your length in meters is:"<<m<<endl;

cout<<"Your length in kilomteres is:"<<k<<endl;

// TASK 4:

double a,b;

cout<<"Enter values for a and b"<<endl;

cin>>a>>b; // This step records the inputted values by the user

double polynomial = (a\*a)+2\*(a\*b)+(b\*b); // Required formula for the calculation

cout<<"The polynomial's answer:"<<polynomial<<endl;

return 0;

}