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Q1: Take values of length and breadth of a rectangle from user and check if it is square or not.

#include <iostream>

using namespace std;

int main(){

    int length, width;

    cout<<"Enter Length of Rectangle: ";

    cin>> length;

    cout<<"Enter Width of Rectangle: ";

    cin>> width;

    if(length == width){

        cout<<"Square";

    }else{

        cout<<"Not Square";

    }

    return 0;

}

Q2: Take two int values from user and print greatest among them.

#include <iostream>

using namespace std;

int main(){

    double num1, num2;

    cout<<"Enter Number One: ";

    cin>> num1;

    cout<<"Enter Number Two: ";

    cin>> num2;

    if(num1 > num2){

        cout<<"The Greatest Value is: "<< num1;

    }else{

        cout<<"The Greatest Value is: "<< num2;

    }

    return 0;

}

Q3: A shop will give discount of 10% if the cost of purchased quantity is more than 1000.

Ask user for quantity Suppose,

one unit will cost 100.

Judge and print total cost for user

#include <iostream>

using namespace std;

int main(){

    int quantity, cost;

    cout<<"How Many Units: ";

    cin>> quantity;

    cost = 100 \* quantity;

    if(cost >= 1000){

        cost = cost - 0.1 \* cost;

        cout<<"Total Cost: "<< cost;

    }else{

        cout<<"Total Cost: "<< cost;

    }

    return 0;

}

Q4: A company decided to give bonus of 5% to employee if his/her year of service is more than 5 years.

Ask user for their salary and year of service and print the net bonus amount.

#include <iostream>

using namespace std;

int main(){

    int salary, years;

    double bonus;

    cout<<"What's Your Salary: ";

    cin>> salary;

    cout<<"How Many Years Have You Been Working Here: ";

    cin>> years;

    if(years >= 5){

        bonus = 0.05 \* salary;

        salary = salary + bonus;

        cout<<"Your New Salary Is: "<< salary <<", With Net Bonus Amount: "<< bonus;

    }else{

        cout<<"Your Salary Is: "<< salary <<", With No Bonus";

    }

    return 0;

}

Q5: A school has following rules for grading system:

a. Below 25 - F

b. 25 to 45 - E

c. 45 to 50 - D

d. 50 to 60 - C

e. 60 to 80 - B

f. Above 80 - A

Ask user to enter marks and print the corresponding grade.

#include <iostream>

using namespace std;

int main(){

    double marks;

    cout<<"What's Your Mark: ";

    cin>> marks;

    if(marks >= 80){

        cout<<"Your Grade Is: A";

    }else if(marks >= 60 && marks < 80){

        cout<<"Your Grade Is: B";

    }else if(marks >= 50 && marks < 60){

        cout<<"Your Grade Is: C";

    }else if(marks >= 45 && marks < 50){

        cout<<"Your Grade Is: D";

    }else if(marks >= 25 && marks < 45){

        cout<<"Your Grade Is: E";

    }else{

        cout<<"Your Grade Is: F";

    }

    return 0;

}

Q6: Take input of age of 3 people by user and determine oldest and youngest among them.

#include <iostream>

using namespace std;

int main(){

    int user\_age1, user\_age2, user\_age3;

    cout<<"Enter User Age One: ";

    cin>> user\_age1;

    cout<<"Enter User Age Two: ";

    cin>> user\_age2;

    cout<<"Enter User Age Three: ";

    cin>> user\_age3;

    if(user\_age1 > user\_age2 && user\_age1 > user\_age3){

        cout<<"The Age Of Oldest User Is: "<< user\_age1;

        if(user\_age2 < user\_age3){

            cout<<", And Youngest User Is: " << user\_age2;

        }else{

            cout<<", And Youngest User Is: " << user\_age3;

        }

    }else if(user\_age2 > user\_age1 && user\_age2 > user\_age3){

        cout<<"The Age Of Oldest User Is: "<< user\_age2;

        if(user\_age1 < user\_age3){

            cout<<", And Youngest User Is: " << user\_age1;

        }else{

            cout<<", And Youngest User Is: " << user\_age3;

        }

    }else if(user\_age3 > user\_age1 && user\_age3 > user\_age2){

        cout<<"The Age Of Oldest User Is: "<< user\_age3;

        if(user\_age1 < user\_age2){

            cout<<", And Youngest User Is: " << user\_age1;

        }else{

            cout<<", And Youngest User Is: " << user\_age2;

        }

    }

    return 0;

}

Q7: A student will not be allowed to sit in exam if his/her attendance is less than 75%.

Take following input from user

Number of classes held

Number of classes attended.

And print

percentage of class attended

Is student is allowed to sit in exam or not.

#include <iostream>

using namespace std;

int main(){

    int held\_classes, attended\_classes;

    double percentage;

    cout<<"How Many Classes Are Held: ";

    cin>> held\_classes;

    cout<<"How Many Classes Are Attended: ";

    cin>> attended\_classes;

    percentage = (attended\_classes \* 100) / held\_classes;

    cout<<"Your Percentage Of Attending Is: " << percentage <<"%"<< endl;

    if(percentage >= 75){

        cout<<"You Are Allowed To Sit In Exam";

    }else{

        cout<<"You Aren't Allowed To Sit In Exam";

    }

    return 0;

}