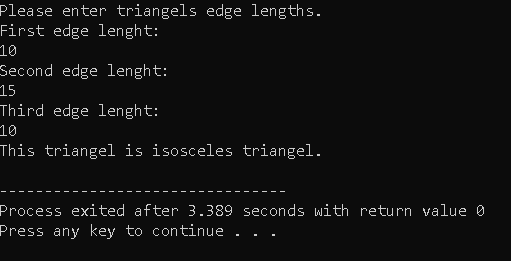
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QUESTION 2.1

#include <stdio.h>

int main() {

    float l1,l2,l3;

    printf("Please enter triangels edge lengths.\n");

    printf("First edge lenght: \n");

    scanf("%f",&l1);

    printf("Second edge lenght: \n");

    scanf("%f",&l2);

    printf("Third edge lenght: \n");

    scanf("%f",&l3);

    if((l1==l2)&&(l2==l3)){

        printf("This triangel is equilateral triangel.\n");

    }else if((l1==l2)||(l1==l3)||(l3==l2)){

        printf("This triangel is isosceles triangel.\n");

    }else{

        printf("This triangel is diverse triangel.\n");

    }

    return 0;

}

QUESTION 2.2

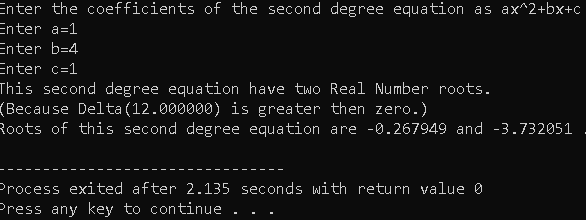
#include <stdio.h>

#include <math.h>

int main(){

    double a,b,c;

    printf("Enter the coefficients of the second degree equation as ax^2+bx+c \n");

    printf("Enter a=");

    scanf("%lf",&a);

    printf("Enter b=");

    scanf("%lf",&b);

    printf("Enter c=");

    scanf("%lf",&c);

    double delta = pow(b,2)-4\*a\*c;

    if (a == 0){

        printf("a can not be 0!!!");

        return 1;

    }

    if (delta<0){

        printf("This second degree equation doesn't have any Real Number roots.\n");

        printf("(Because Delta(%lf) is less then zero.\n)",delta);

    }else if(delta==0){

        printf("This second degree equation have just one Real Number root.\n");

        printf("(Because Delta(0) is zero.)\n");

        printf("Root of this second degree equation is %lf\n", -b/(2\*a));

    }else{

        printf("This second degree equation have two Real Number roots.\n");

        printf("(Because Delta(%lf) is greater then zero.)\n",delta);

        double x1 = (-b + sqrt(delta))/(2\*a);

        double x2 = (-b - sqrt(delta))/(2\*a);

        printf("Roots of this second degree equation are %lf and %lf .\n",x1,x2);

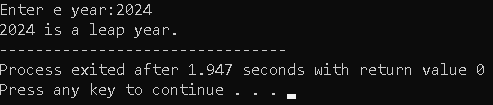
    }

    return 0;

}

QUESTION 2.3

#include <stdio.h>

int main(){

    int year;

    printf("Enter e year:");

    scanf("%d",&year);

    if(year%4==0){

        printf("%d is a leap year.",year);

    }else{

        printf("%d is not a leap year.",year);

    }

    return 0;

}

QUESTION 2.4

#include <stdio.h>

int main(){

    int int\_array[3] = {0,0,0},int\_temp;

    printf("Enter 3 integers to sort.\n");

    int i;

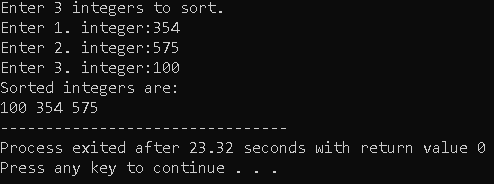
    for(i=0;i<3;i++){

        printf("Enter %d. integer:",i+1);

        scanf("%d",&int\_array[i]);

    }

    if (int\_array[0]>int\_array[1]){

        int\_temp = int\_array[1];

        int\_array[1] = int\_array[0];

        int\_array[0] = int\_temp;

    }

    if (int\_array[1]>int\_array[2]){

        int\_temp = int\_array[2];

        int\_array[2] = int\_array[1];

        int\_array[1] = int\_temp;

    }

    if (int\_array[0]>int\_array[1]) {

        int\_temp = int\_array[1];

        int\_array[1] = int\_array[0];

        int\_array[0] = int\_temp;

    }

    printf("Sorted integers are:\n");

    for(i=0;i<3;i++){

        printf("%d ",int\_array[i]);

    }

    return 0;

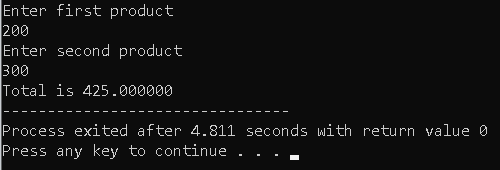
}

QUESTION 2.5

#include <stdio.h>

int main(){

    float pro\_1,pro\_2;



    printf("Enter first product\n");

    scanf("%f",&pro\_1);

    printf("Enter second product\n");

    scanf("%f",&pro\_2);

    if ((pro\_1+pro\_2)>=200){

        printf("Total is %f",(pro\_1+pro\_2\*0.75));

    }else{

        printf("Total is %f",(pro\_1+pro\_2));

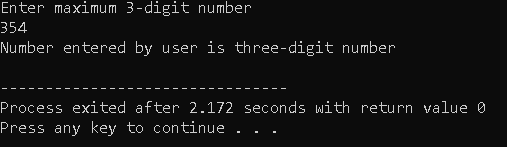
    }

    return 0;

}

QUESTION 2.6

#include <stdio.h>

int main(){

    int number;

    printf("Enter maximum 3-digit number\n");

    scanf("%d",&number);

    if(0<=number&&number<10){

        printf("Number entered by user is one-digit number\n");

    }else if(10<=number&&number<100){

        printf("Number entered by user is two-digit number\n");

    }else if(100<=number&&number<1000){

        printf("Number entered by user is three-digit number\n");

    }else{

        printf("Number entered by user is more than three-digit number or negative number\n");

    }

    return 0;

}

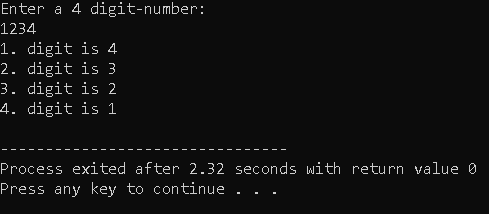
QUESTION 2.7

#include <stdio.h>

#include <math.h>

int main(){

    int dgt\_4;

    printf("Enter a 4 digit-number:\n");

    scanf("%d",&dgt\_4);

    if(999<dgt\_4&&dgt\_4<10000){

        int i;

        for(i=0;i<4;i++){

            int digit = (int)(dgt\_4/pow(10,i))%10;

            printf("%d. digit is %d\n",i+1,digit);

        }

    }else{

        printf("numeros no validas");

    }

return 0;

}

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