



TECNOLÓGICO  
NACIONAL DE MÉXICO



Instituto Tecnológico de Reynosa

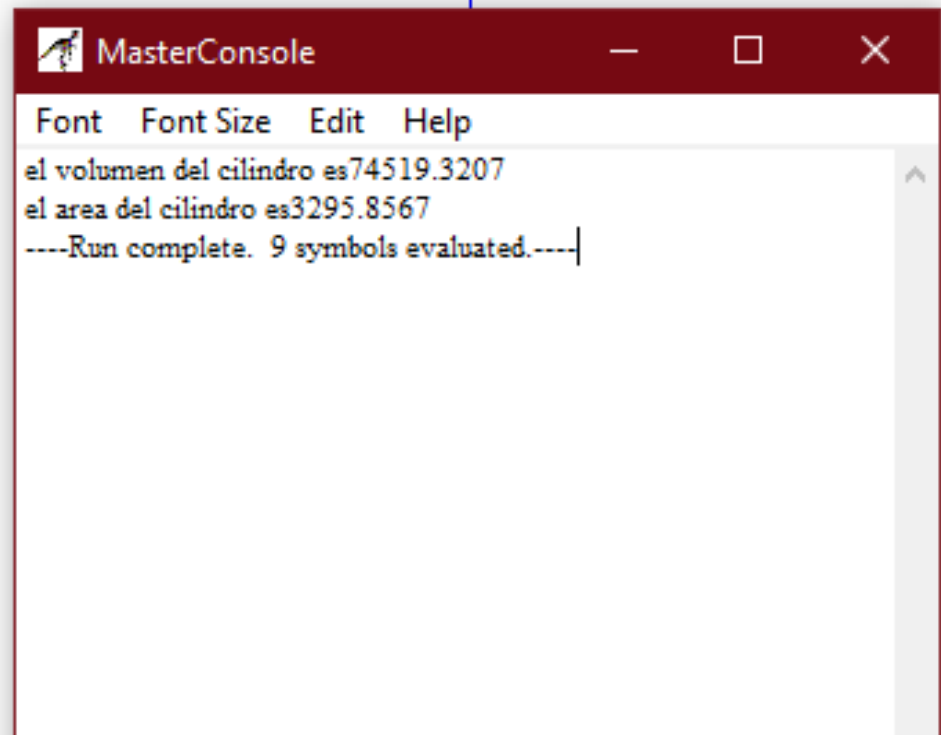
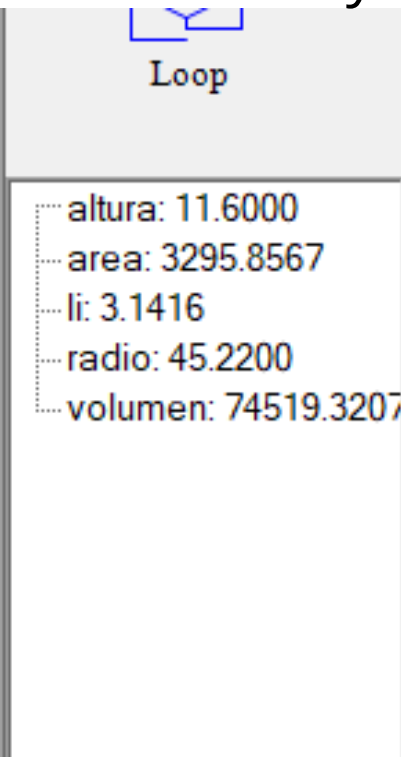
Carrera: Ingeniería Electromecánica

Tema: Programaciones de RAPTOR

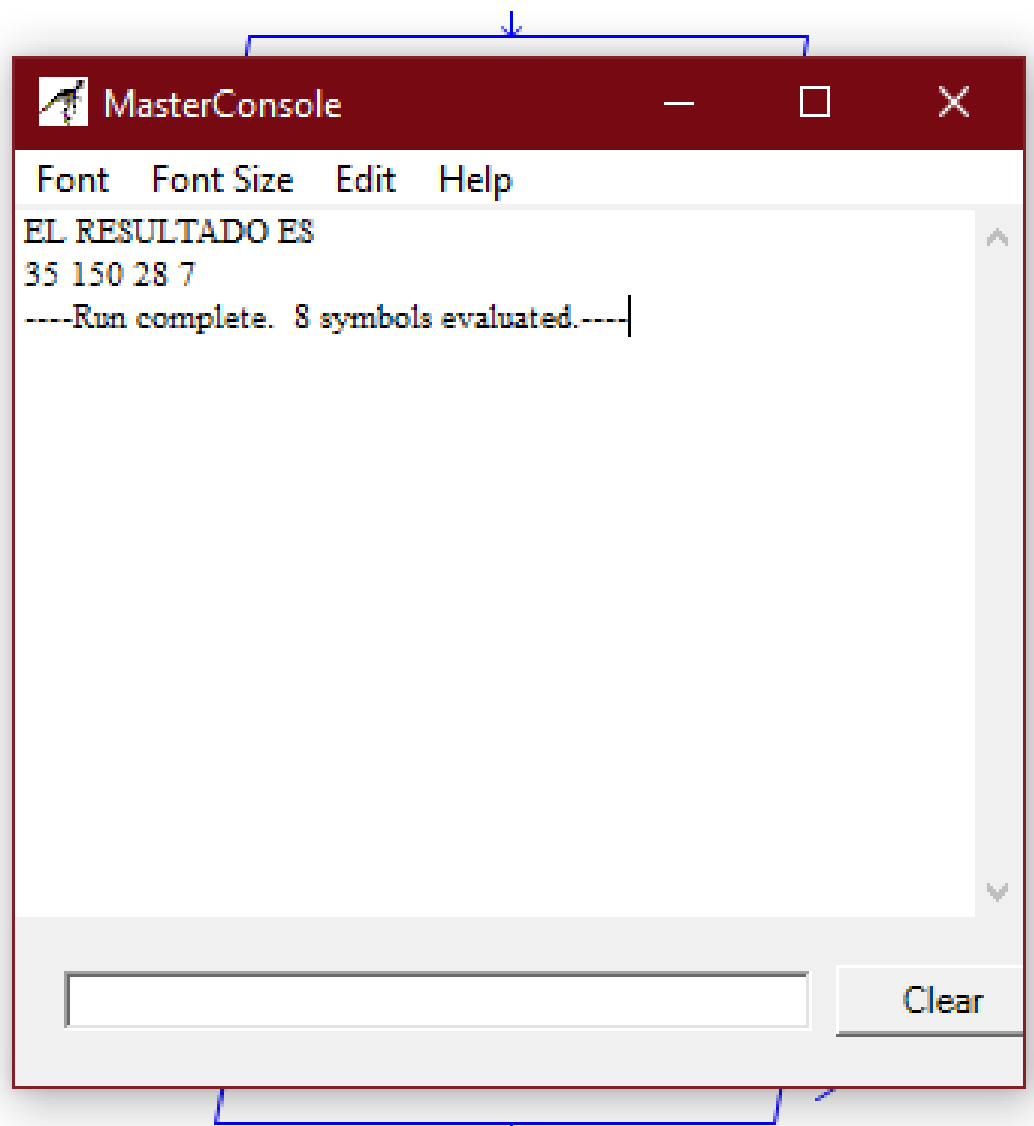
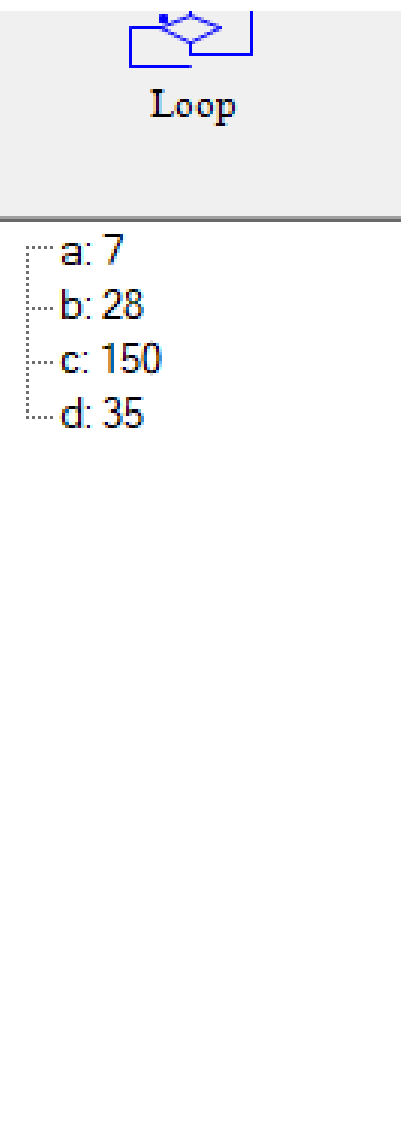
Alumnos: Cruz Salas Miguel Angel  
Garza Orozco Jorge Antonio  
Vargas Martinez Kevin Gerardo

En la Cd. Reynosa, Tamaulipas, a 02 de octubre del 2025

# volumen y area



## A B C D

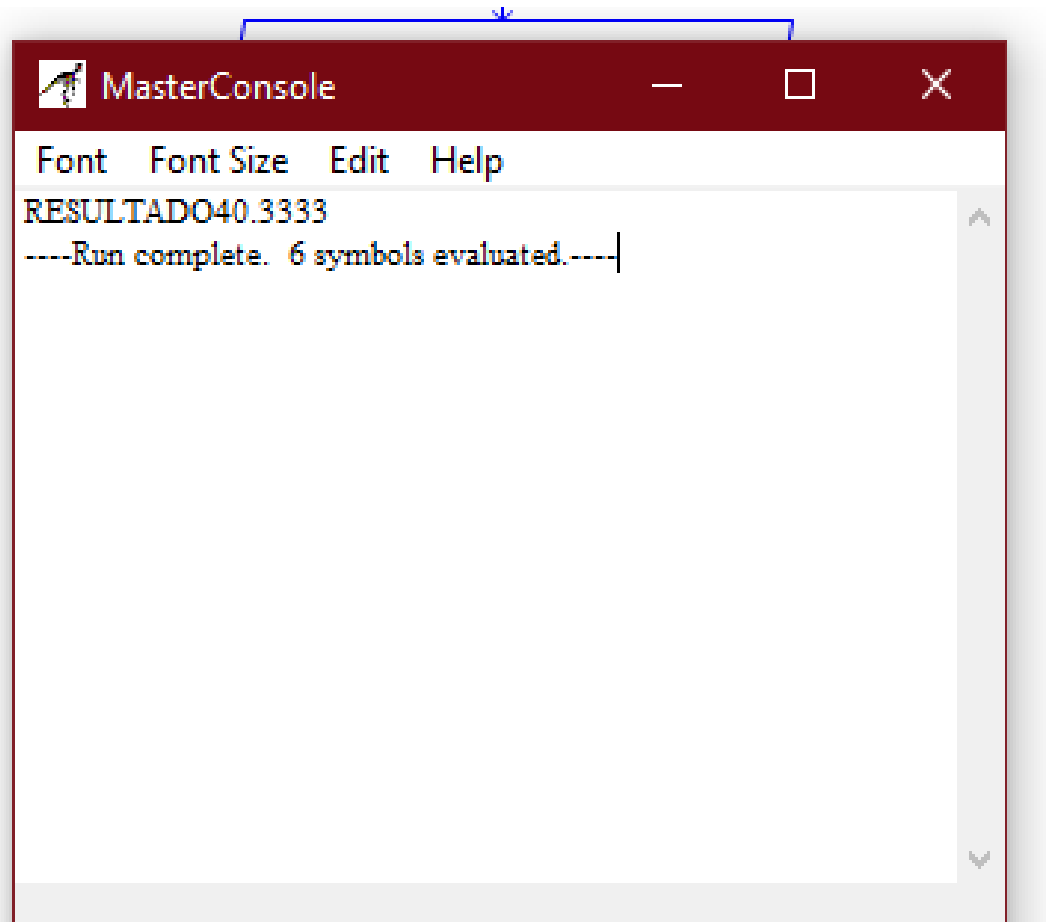


# VARIABLES A Y B



Loop

```
a: 5  
b: 6  
res: 40.3333
```

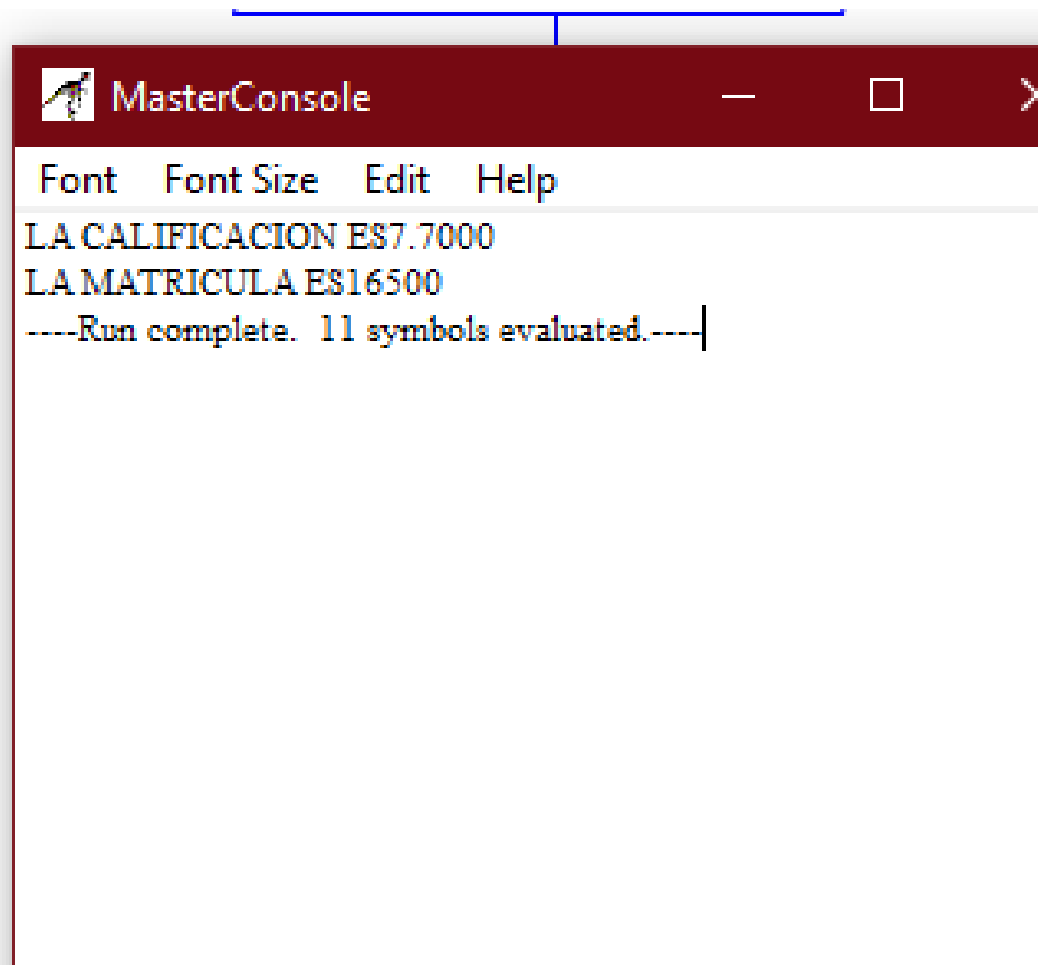


# CALIFICACIONES

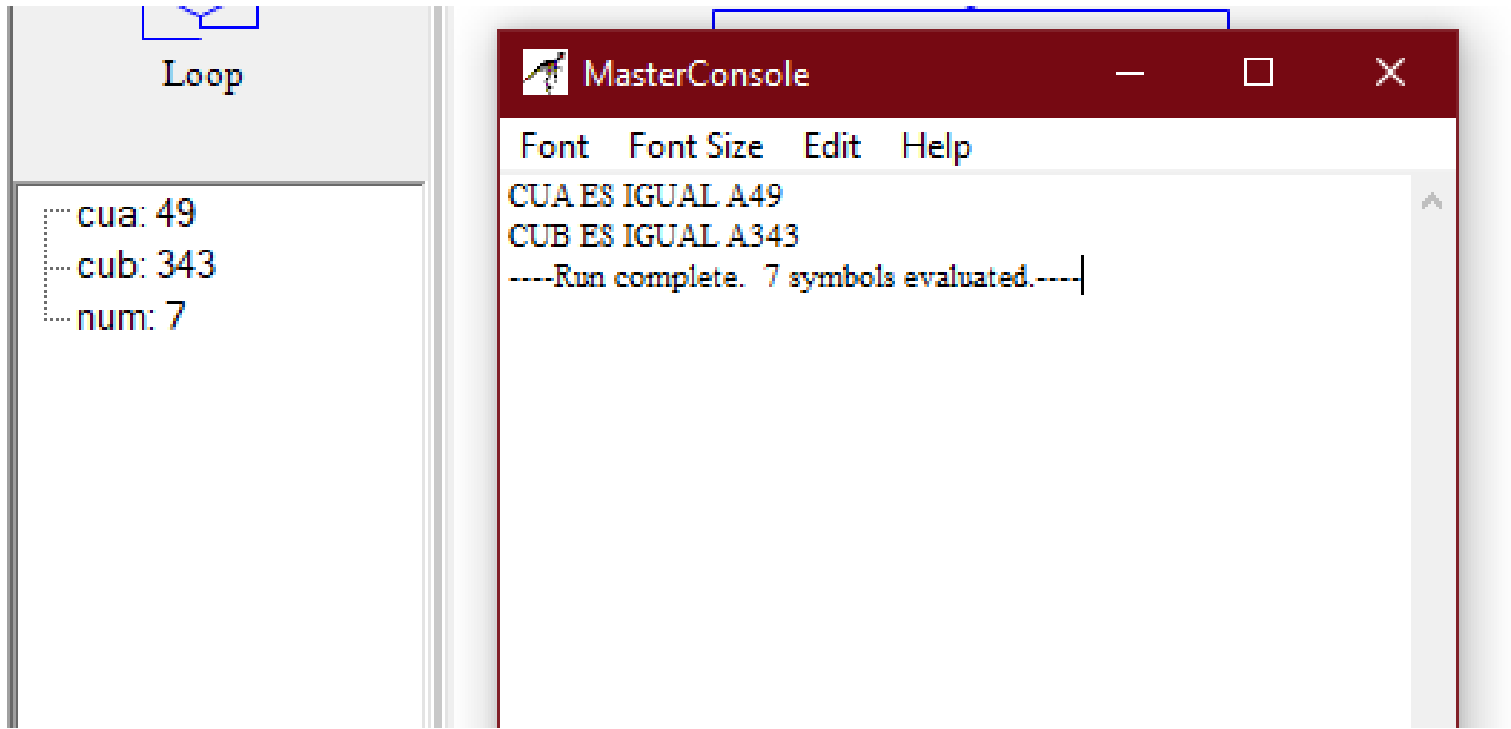


Loop

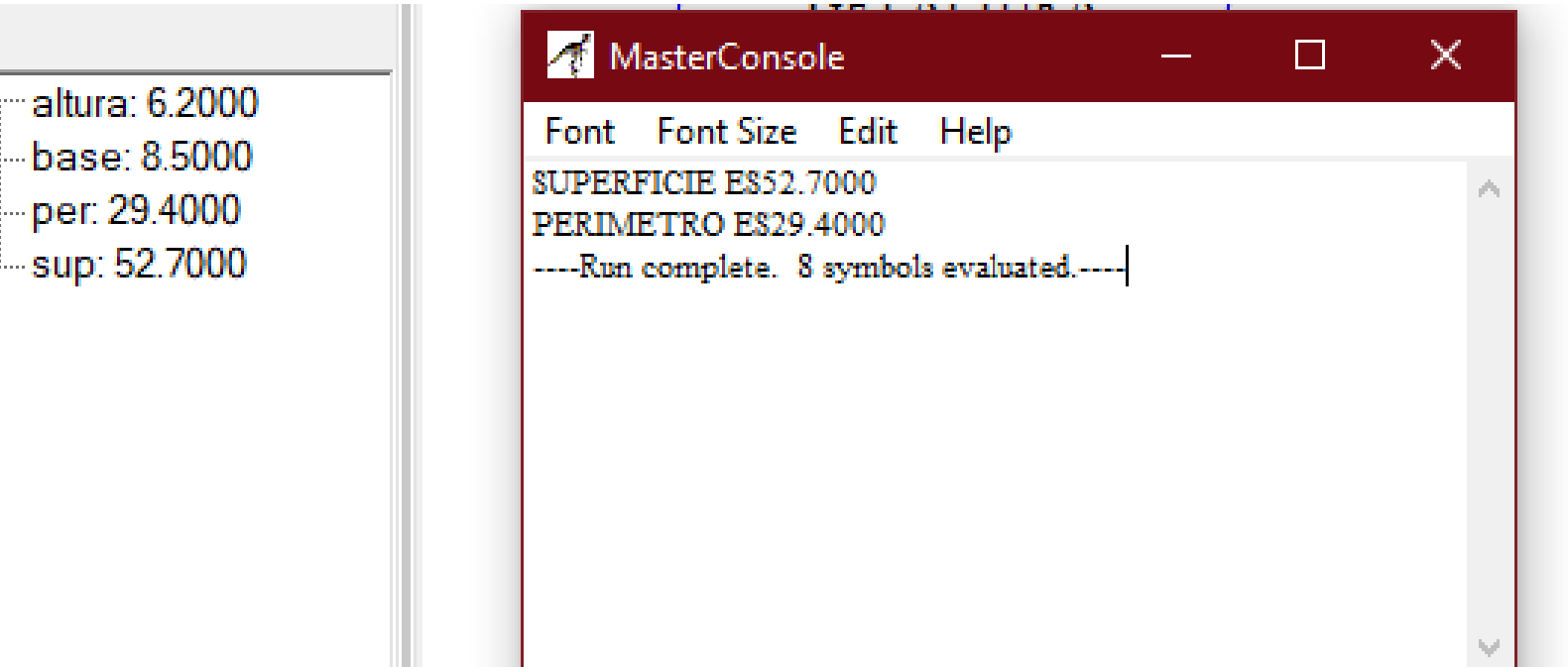
```
cal1: 8  
cal2: 8.5000  
cal3: 9  
cal4: 7  
cal5: 6  
mat 16500  
pro: 7.7000
```



# CUADRADO Y CUBO

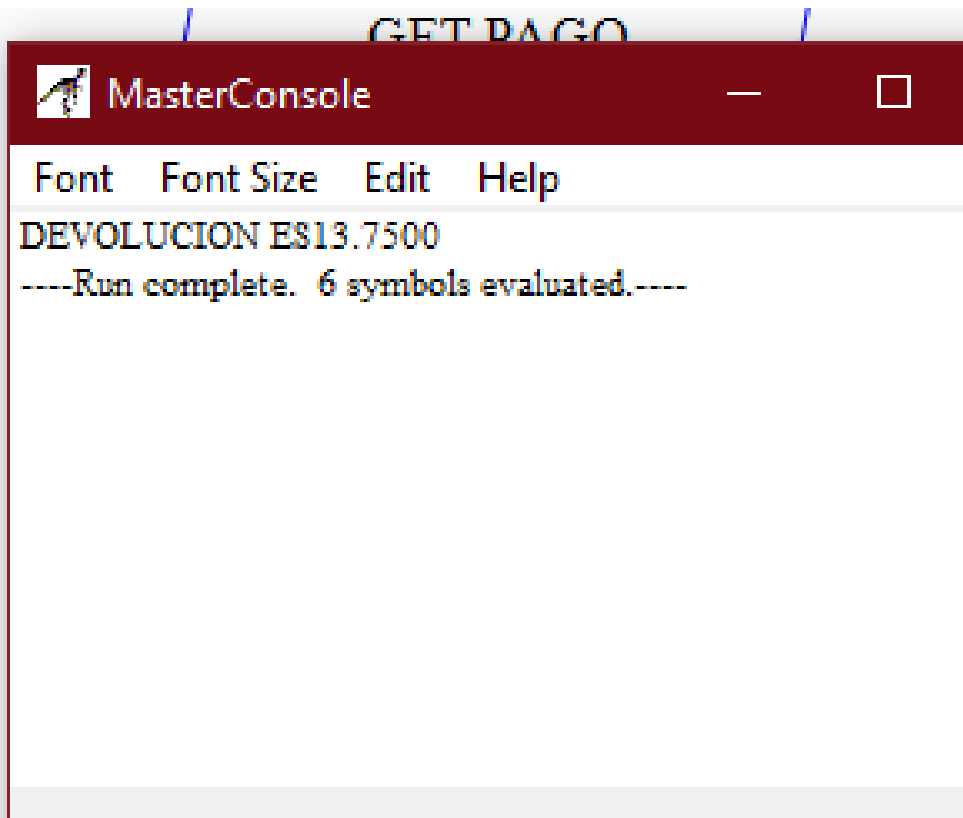


# PERIMETRO



## PREPAGO Y PAGO

```
.....devo: 13.7500  
.....pago: 100  
.....prepro: 86.2500
```



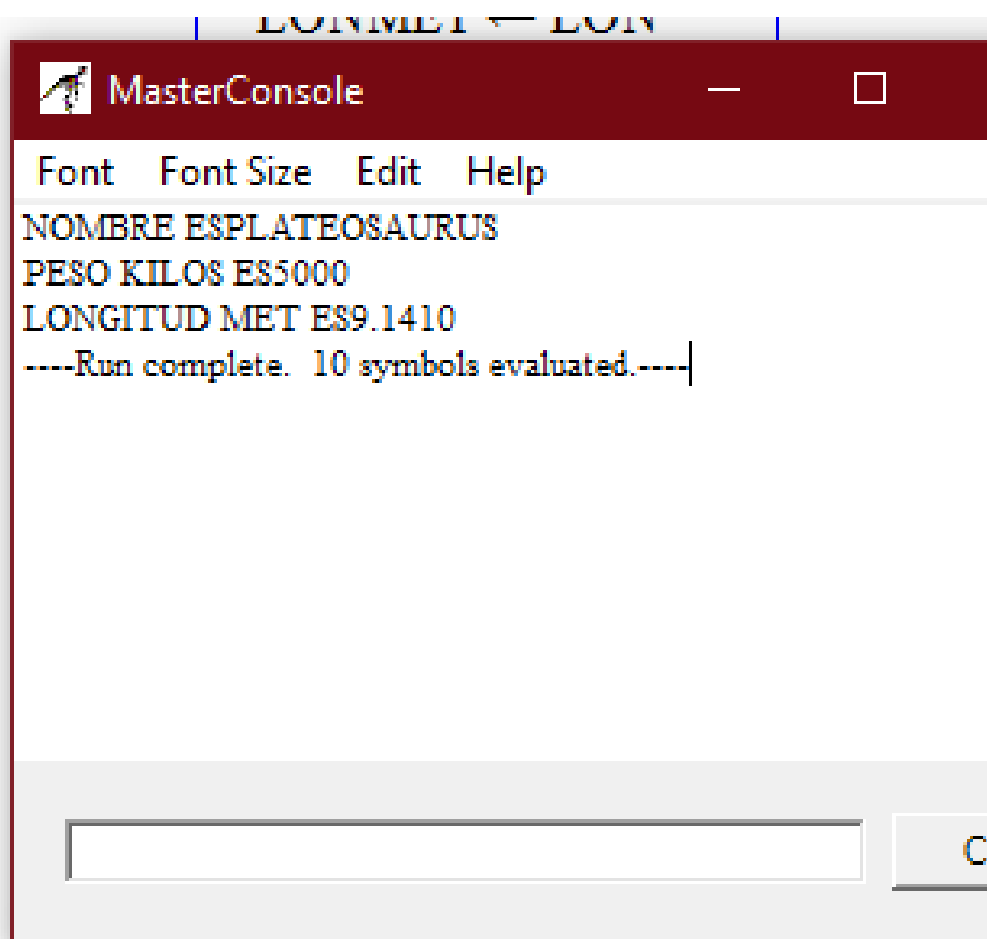
MasterConsole

Font Font Size Edit Help

DEVOLUCION ES13.7500  
----Run complete. 6 symbols evaluated.----

## DINOSAURIO

```
.....lon: 30  
.....lonmet: 9.1410  
.....nom: "PLATEOSAURUS"  
.....pes: 5  
.....peskil: 5000
```



MasterConsole

Font Font Size Edit Help

NOMBRE ESPLATEOSAURUS  
PESO KILOS ES5000  
LONGITUD MET ES9.1410  
----Run complete. 10 symbols evaluated.----

# GALONES

gal: 10.3800
total: 322.1641

\* 8 20

MasterConsole

Font Font Size Edit Help

TOTAL E\$322.1641

----Run complete. 5 symbols evaluated.----

# DIAS

dias: 7
seg: 604800

6() \* 6()

MasterConsole

Font Font Size Edit Help

EN7HAY604800SEGUNDOS

----Run complete. 5 symbols evaluated.----

## AREA

```
... area: 24.3570
... l1: 7.5000
... l2: 7.5000
... l3: 7.5000
... s: 11.2500
```



MasterConsole



Font Font Size Edit Help

LA AREA ES24.3570

----Run complete. 8 symbols evaluated.----

## DISTANCIA

```
... dis: 3.5948
... x1: 3.1700
... x2: 4.9900
... y1: 4.7800
... y2: 7.8800
```



MasterConsole



Font Font Size Edit Help

LA DISTANCIA ES3.5948

----Run complete. 8 symbols evaluated.----

Cle

PROGRAMACION C++ 7.cpp

```

1 #include <iostream>
2 #include <string>
3 using namespace std;
4
5 int main()
6 {
7     cout << "Hola! Este programa 1.6 Escribe los datos en orden inverso" << "\n";
8     int A,B,C,D;
9     cout << "Por favor ingrese el primer valor A: " << "\n";
10    cin >> A;
11    cout << "Por favor ingrese el segundo valor B: " << "\n";
12    cin >> B;
13    cout << "Por favor ingrese el tercer valor C: " << "\n";
14    cin >> C;
15    cout << "Por favor ingrese el cuarto valor D: " << "\n";
16    cin >> D;
17
18    cout << D << " , " << C << " , " << B << " , " << A;
19
20    return 0;
21 }

```

Compilation results...

Errors: 0  
Warnings: 0  
Output Filename: C:\Users\tonny\Downloads\PROGRAMACION C++8.exe  
Output Size: 1.832444190979 MiB  
Compilation Time: 4.25s

Line: 8 Col: 76 Sel: 0 Lines: 22 Length: 550 Insert Done parsing in 0.031 seconds

PROGRAMACION C++ 2.cpp

```

1 #include <iostream>
2 #include <stdio.h>
3 using namespace std;
4
5 int main()
6 {
7     int A,B;
8     float RES;
9
10    cout << "Hola! Este programa 1.7 Escribir el resultado de la expresion" << "\n";
11    cout << "Por favor ingrese el valor A: " << "\n";
12    cin >> A;
13    cout << "Por favor ingrese el valor B: " << "\n";
14    cin >> B;
15
16    RES=((A*B)*(A+B))/3.0;
17
18    printf("\n El resultado de la expresion es %5.4f \n", RES);
19    cout << "El resultado de expresion es " << RES << "\n";
20
21    return 0;
22 }

```

Compilation results...

Errors: 0  
Warnings: 0  
Output Filename: C:\Users\tonny\Downloads\PROGRAMACION C++8.exe  
Output Size: 1.832444190979 MiB  
Compilation Time: 4.25s

Line: 22 Col: 14 Sel: 0 Lines: 23 Length: 490 Insert Done parsing in 0.031 seconds

PROGRAMACION C++ 3.cpp

```

1 #include <iostream>
2 #include <stdio.h>
3 using namespace std;
4
5 int main()
6 {
7     int MAT;
8     float PRO,CAL1, CAL2,CAL3,CAL4,CAL5;
9     cout << "Hola! Este programa 1.8 Promedio calificaciones" << "\n";
10    cout << "Por favor ingrese la matricula del alumno: " << "\n";
11    cin >> MAT;
12    cout << "Por favor ingrese la primer calificacion: " << "\n";
13    cin >> CAL1;
14    cout << "Por favor ingrese la segunda calificacion: " << "\n";
15    cin >> CAL2;
16    cout << "Por favor ingrese la tercera calificacion: " << "\n";
17    cin >> CAL3;
18    cout << "Por favor ingrese la cuarta calificacion: " << "\n";
19    cin >> CAL4;
20    cout << "Por favor ingrese la quinta calificacion: " << "\n";
21    cin >> CAL5;
22    PRO=(CAL1+CAL2+CAL3+CAL4+CAL5)/5.0;
23    printf("\n El promedio del alumno de matricula %d es %5.2f\n",MAT,PRO);
24    cout << "\n El promedio del alumno de matricula " << MAT << " es " << PRO << "\n";
25    return 0;
26 }

```

Compilation results...

Errors: 0  
Warnings: 0  
Output Filename: C:\Users\tonny\Downloads\PROGRAMACION C++8.exe  
Output Size: 1.832444190979 MiB  
Compilation Time: 4.25s

Line: 25 Col: 4 Sel: 0 Lines: 25 Length: 903 Insert Done parsing in 0.031 seconds



C:\Users\tonny\Downloads\PROGRAMACION C++4.cpp - Dev-C++ 5.11

File Edit Search View Project Execute Tools AStyle Window Help

Project Classes Debug

PROGRAMACION C++7.cpp PROGRAMACION C++2.cpp PROGRAMACION C++3.cpp [\*] PROGRAMACION C++8.cpp [\*] PROGRAMACION C++4.cpp [\*] PROGRAMACION C++5.cpp Untitled10 PROGRAMACION C++6.cpp

```
1 #include <iostream>
2 #include <stdio.h>
3 using namespace std;
4 int main()
5 {
6     int NUM,CUA,CUB;
7     cout << "Hola! Este programa 1. calcular el cuadrado y el cubo de un numero entero positivo" << "\n";
8     cout << "Por favor ingrese el valor del NUMERO: " << "\n";
9     cin >> NUM;
10
11     CUA=NUM*NUM;
12     CUB=NUM*NUM*NUM;
13     cout << "El cuadrado de " <<NUM<<" es: "<<CUA<<"y el cubo es: "<<CUB<<endl;
14     return 0;
15 }
16
```

Compiler Resources Compile Log Debug Find Results Close

Compilation results...

Errors: 0  
Warnings: 0  
Output Filename: C:\Users\tonny\Downloads\PROGRAMACION C++8.exe  
Output Size: 1.032444190979 MiB  
Compilation Time: 4.28s

Line: 16 Col: 1 Sel: 0 Lines: 16 Length: 406 Insert Done parsing in 0.031 seconds

C:\Users\tonny\Downloads\PROGRAMACION C++5.cpp - Dev-C++ 5.11

File Edit Search View Project Execute Tools AStyle Window Help

Project Classes Debug

PROGRAMACION C++7.cpp PROGRAMACION C++2.cpp PROGRAMACION C++3.cpp [\*] PROGRAMACION C++8.cpp [\*] PROGRAMACION C++4.cpp [\*] PROGRAMACION C++5.cpp Untitled10 PROGRAMACION C++6.cpp

```
1 #include <iostream>
2 #include <stdio.h>
3 using namespace std;
4
5 int main()
6 {
7     float Altura,Base;
8     float SUPERFICIE, PERIMETRO;
9     cout << "Hola! Este programa 1.10 calcular la superficie y el perimetro de un rectangulo" << "\n";
10
11     cout << "Por favor ingrese el valor de la Base: " << "\n";
12     cin >> Base;
13
14     cout << "Por favor ingrese el valor de la Altura: " << "\n";
15     cin >> Altura;
16
17     SUPERFICIE= Base*Altura;
18     PERIMETRO=2*(Base+Altura);
19
20     printf ("La superficie del rectangulo es %5.2f\n", SUPERFICIE);
21
22     printf ("El perimetro del rectangulo es de %5.2f\n", PERIMETRO);
23     return 0;
24 }
25
```

Compiler Resources Compile Log Debug Find Results Close

Compilation results...

Errors: 0  
Warnings: 0  
Output Filename: C:\Users\tonny\Downloads\PROGRAMACION C++8.exe  
Output Size: 1.032444190979 MiB  
Compilation Time: 4.28s

Line: 25 Col: 1 Sel: 0 Lines: 25 Length: 617 Insert Done parsing in 0.031 seconds

C:\Users\tonny\Downloads\PROGRAMACION C++6.cpp - Dev-C++ 5.11

File Edit Search View Project Execute Tools AStyle Window Help

Project Classes Debug

PROGRAMACION C++7.cpp PROGRAMACION C++2.cpp PROGRAMACION C++3.cpp [\*] PROGRAMACION C++8.cpp [\*] PROGRAMACION C++4.cpp [\*] PROGRAMACION C++5.cpp Untitled10 PROGRAMACION C++6.cpp

```
1 #include <iostream>
2
3 using namespace std;
4
5 int main()
6 {
7     float PRECIOPRODUCTO, DEVOLUCION;
8     float PAGO;
9
10     cout << "Escribe el precio del articulo " << "\n";
11     cin >> PRECIOPRODUCTO;
12
13     cout << "Escribe cuanto fue el pago del articulo " << "\n";
14     cin >> PAGO;
15     DEVOLUCION= PAGO-PRECIOPRODUCTO;
16
17     cout<<" El cambio del cliente es "<<DEVOLUCION;
18     return 0;
19 }
20
```

Compiler Resources Compile Log Debug Find Results Close

Compilation results...

Errors: 0  
Warnings: 0  
Output Filename: C:\Users\tonny\Downloads\PROGRAMACION C++8.exe  
Output Size: 1.032444190979 MiB  
Compilation Time: 4.28s

Line: 20 Col: 1 Sel: 0 Lines: 20 Length: 376 Insert Done parsing in 0.031 seconds

C:\Users\tonny\Downloads\PROGRAMACION C++7.cpp - Dev-C++ 5.11

File Edit Search View Project Execute Tools ASStyle Window Help

Project Classes Debug

PROGRAMACION C++1.cpp PROGRAMACION C++2.cpp PROGRAMACION C++3.cpp [\*] PROGRAMACION C++4.cpp [\*] PROGRAMACION C++5.cpp

[\*] PROGRAMACION C++6.cpp [\*] PROGRAMACION C++7.cpp [\*] PROGRAMACION C++8.cpp Untitled10

```
1 #include <iostream>
2 #include <iostream>
3 using namespace std;
4
5 int main()
6 {
7     string NOMBRE;
8     float PESOLIBRAS, LONGITUDENPIES;
9     float PESOENKILOS, LONGITUDENMETROS;
10
11     cout << "Escribe el nombre del dinosaurio " << "\n";
12     cin >> NOMBRE;
13
14     cout << "Escribe el peso del dinosaurio en libras " << "\n";
15     cin >> PESOLIBRAS;
16     cout << "Escribe la longitud del dinosaurio en pies " << "\n";
17     cin >> LONGITUDENPIES;
18
19     PESOENKILOS = PESOLIBRAS * 0.453592;
20     LONGITUDENMETROS = LONGITUDENPIES * 0.3048;
21
22     cout << "El peso en kilos del dinosaurio " << NOMBRE << " es " << PESOENKILOS << " y la longitud en metros es " << LONGITUDENMETROS << "\n";
23     return 0;
24 }
```

Compiler Resources Compile Log Debug Find Results Close

Compilation results...

Errors: 0  
Warnings: 0  
Output Filename: C:\Users\tonny\Downloads\PROGRAMACION C++8.exe  
Output Size: 1.832444190979 MiB  
Compilation Time: 4.25s

Line: 25 Col: 1 Sel: 0 Lines: 25 Length: 638 Insert Done parsing in 0.031 seconds

C:\Users\tonny\Downloads\PROGRAMACION C++8.cpp - Dev-C++ 5.11

File Edit Search View Project Execute Tools ASStyle Window Help

Project Classes Debug

PROGRAMACION C++1.cpp PROGRAMACION C++2.cpp PROGRAMACION C++3.cpp [\*] PROGRAMACION C++4.cpp [\*] PROGRAMACION C++5.cpp

[\*] PROGRAMACION C++6.cpp [\*] PROGRAMACION C++7.cpp [\*] PROGRAMACION C++8.cpp Untitled10

```
1 #include <iostream>
2 using namespace std;
3 int main()
4 {
5     float GALONES, TOTAL;
6     const float GALON=3.785, PRECIOCILITRO=0.20;
7
8     cout << "Escribe cantidad de galos comprados " << "\n";
9     cin >> GALONES;
10
11     TOTAL = GALONES * GALON * PRECIOCILITRO;
12
13     cout << "Hay que cobrar al cliente por " << GALONES << " galones " << "debe pagar " << TOTAL << " pesos " << "\n";
14     return 0;
15 }
```

Compiler Resources Compile Log Debug Find Results Close

Compilation results...

Errors: 0  
Warnings: 0  
Output Filename: C:\Users\tonny\Downloads\PROGRAMACION C++8.exe  
Output Size: 1.832444190979 MiB  
Compilation Time: 4.25s

Line: 16 Col: 1 Sel: 0 Lines: 16 Length: 363 Insert Done parsing in 0.031 seconds

C:\Users\tonny\Downloads\VOLUMEN Y AREA.cpp - Dev-C++ 5.11

File Edit Search View Project Execute Tools ASStyle Window Help

Project Classes Debug

PROGRAMACION C++1.cpp PROGRAMACION C++2.cpp PROGRAMACION C++3.cpp distancia.cpp [\*] PROGRAMACION C++4.cpp area triangulo.cpp dias.cpp [\*] PROGRAMACION C++5.cpp

[\*] PROGRAMACION C++6.cpp [\*] PROGRAMACION C++7.cpp [\*] PROGRAMACION C++8.cpp

```
1 #include <iostream>
2 #include <string>
3 using namespace std;
4
5 int main()
6 {
7     //calculo area y su volumen
8     float RADIO, ALTURA, VOLUMEN, AREA;
9     const float PI=3.141592;
10
11     // entrada de datos
12     cout << "Escribe la medida del radio " << "\n";
13     cin >> RADIO;
14
15     cout << "Escribe la medida de la altura " << "\n";
16     cin >> ALTURA;
17
18     //calculo
19     VOLUMEN = PI * (RADIO * RADIO) * ALTURA;
20     AREA = 2 * PI * RADIO * ALTURA;
21
22     //RESULTADOS
23     cout << "El volumen del cilindro es " << VOLUMEN << "\n";
24     cout << "El area del cilindro es " << AREA << "\n";
25     return 0;
26 }
```

Compiler Resources Compile Log Debug Find Results Close

Compilation results...

Errors: 0  
Warnings: 0  
Output Filename: C:\Users\tonny\Downloads\PROGRAMACION C++8.exe  
Output Size: 1.832444190979 MiB  
Compilation Time: 4.25s

Line: 1 Col: 1 Sel: 0 Lines: 26 Length: 537 Insert Done parsing in 0 seconds

C:\Users\tonny\Downloads\dias.cpp - Dev-C++ 5.11

File Edit Search View Project Execute Tools AStyle Window Help

Project Classes Debug

PROGRAMACION C++ 1.cpp PROGRAMACION C++ 2.cpp PROGRAMACION C++ 3.cpp [\*] PROGRAMACION C++ 4.cpp [\*] PROGRAMACION C++ 5.cpp

[\*] PROGRAMACION C++ 6.cpp [\*] PROGRAMACION C++ 7.cpp [\*] PROGRAMACION C++ 8.cpp distancia.cpp area triangulo.cpp dias.cpp

```

1 #include <iostream>
2 using namespace std;
3
4 int main()
5 { //calcular el numero de segundos que hay en determinados dias
6   int DIAS;
7   float SEGUNDO;
8
9   //ENTRADA DE DATOS
10  cout << "Escribe el numero de dias" << "\n";
11  cin >> DIAS;
12  //CALCULO
13  SEGUNDO = DIAS*24*60*60;
14  //RESULTADOS
15  cout << " EN " << DIAS << " dias, hay " << SEGUNDO << " segundos" << "\n";
16  return 0;
17 }

```

Compiler Resources Compile Log Debug Find Results Close

Compilation results...

Errors: 0  
Warnings: 0  
Output Filename: C:\Users\tonny\Downloads\PROGRAMACION C++8.exe  
Output Size: 1.832444190979 MiB  
Compilation Time: 4.25s

Line: 1 Col: 1 Sel: 0 Lines: 17 Length: 365 Insert Done parsing in 0 seconds

C:\Users\tonny\Downloads\area triangulo.cpp - Dev-C++ 5.11

File Edit Search View Project Execute Tools AStyle Window Help

Project Classes Debug

PROGRAMACION C++ 1.cpp PROGRAMACION C++ 2.cpp PROGRAMACION C++ 3.cpp [\*] PROGRAMACION C++ 4.cpp [\*] PROGRAMACION C++ 5.cpp

[\*] PROGRAMACION C++ 6.cpp [\*] PROGRAMACION C++ 7.cpp [\*] PROGRAMACION C++ 8.cpp distancia.cpp area triangulo.cpp

```

1 #include <iostream>
2 #include <math.h>
3 using namespace std;
4 int main ()
5 {
6   float L1,L2,L3,S,AREA;
7   const float PI=3.141592;
8
9   cout << "lado uno" << "\n";
10  cin >> L1;
11
12  cout << "lado dos" << "\n";
13  cin >> L2;
14
15  cout << "lado tres" << "\n";
16  cin >> L3;
17
18  S=(L1+L2+L3)/2;
19  AREA=sqrt(S*(S-L1)*(S-L2)*(S-L3));
20
21  cout << "El area es" << AREA << "\n";
22  return 0;
23 }

```

Compiler Resources Compile Log Debug Find Results Close

Compilation results...

Errors: 0  
Warnings: 0  
Output Filename: C:\Users\tonny\Downloads\PROGRAMACION C++8.exe  
Output Size: 1.832444190979 MiB  
Compilation Time: 4.25s

Line: 1 Col: 1 Sel: 0 Lines: 23 Length: 361 Insert Done parsing in 0 seconds

C:\Users\tonny\Downloads\distancia.cpp - Dev-C++ 5.11

File Edit Search View Project Execute Tools AStyle Window Help

Project Classes Debug

PROGRAMACION C++ 1.cpp PROGRAMACION C++ 2.cpp PROGRAMACION C++ 3.cpp [\*] PROGRAMACION C++ 4.cpp [\*] PROGRAMACION C++ 5.cpp

[\*] PROGRAMACION C++ 6.cpp [\*] PROGRAMACION C++ 7.cpp [\*] PROGRAMACION C++ 8.cpp distancia.cpp area triangulo.cpp

```

1 #include <iostream>
2 #include <math.h>
3 using namespace std;
4 int main()
5 {
6   float X1,X2,Y1,Y2,DIS;
7
8   cout << "pon x1" << "\n";
9   cin >> X1;
10
11   cout << "pon y1" << "\n";
12   cin >> Y1;
13
14   cout << "pon x2" << "\n";
15   cin >> X2;
16
17   cout << "pon y2" << "\n";
18   cin >> Y2;
19
20   DIS=sqrt(pow((X1-X2),2)+pow((Y1-Y2),2));
21
22   cout << "La distancia entre el punto " << X1 << ", " << Y1 << " y el punto " << X2 << ", " << Y2 << " es " << DIS << "\n";
23   return 0;
24 }
25
26

```

Compiler Resources Compile Log Debug Find Results Close

Compilation results...

Errors: 0  
Warnings: 0  
Output Filename: C:\Users\tonny\Downloads\PROGRAMACION C++8.exe  
Output Size: 1.832444190979 MiB  
Compilation Time: 4.25s

Line: 1 Col: 1 Sel: 0 Lines: 26 Length: 419 Insert Done parsing in 0 seconds