

Funciones

Cree un archivo fuerza.m, allí crearemos la función.

```
function [x]=fuerza(m,a)
x=m*a
disp('la fuerza de newton')
```

utilice como

```
>>fuerza(2,2)
>>f=fuerza(2,2)
```

Cree un archivo cuadrática.m allí crearemos la función

```
function [x1,x2]=cuadratica(a,b,c);
x1=(-b-sqrt(b^2-4*a*c))/(2*a);
x2=(-b+sqrt(b^2-4*a*c))/(2*a);
disp('ecuacion cuadratica');
```

utilice como

```
>>cuadrática(2,3,4)
>>[x1,x2]=cuadrática(2,3,4)
```

Funciones de entrada y salida

Mostrar por pantalla

```
disp('escribe algo')
```

```
fprintf('escribe algo')
```

mostrar una o varias variables

```
a=4
```

```
fprintf('el valor de a es:%d',a)
```

Field Type	Specifier	Details
Integer, signed	%d	Base 10
	%i	Base determined from the values. Defaults to base 10. If initial digits are 0x or 0X, it is base 16. If initial digit is 0, it is base 8.
	%ld or %li	64-bit values, base 10, 8, or 16
Integer, unsigned	%u	Base 10
	%o	Base 8 (octal)
	%x	Base 16 (hexadecimal)
	%lu, %lo, %lx	64-bit values, base 10, 8, or 16
Floating-point number	%f	Floating-point fields can contain any of the following (not case sensitive): Inf, -Inf, NaN, or -NaN.
	%e	
	%g	
Character string	%s	Read series of characters, until find white space.
	%c	Read any single character, including white space. (To read multiple characters, specify field length.)
	%[...]	Read only characters in the brackets, until the first nonmatching character or white space.

Optionally:

- To specify the maximum width of a field, insert a number. For example, %10c reads exactly 10 characters at a time, including white space.
- To skip a specific set of characters, insert the literal characters in the *format*. For example, to read only the floating-point number from 'pi=3.14159', specify a *format* of 'pi=%f'

Entrada de datos por teclado

Recibir datos numericos

```
d=input('ingrese el valor de f')% enteros
```

especificación que se reciben caracteres

```
d=input('ingrese el valor de f','s')%caracteres
```

conversión de variables

```
k=double(s)%lo convierte
```