Prepare a script (if_1pen.m) that contains any two numbers A and B. Use if to test if A is greater than, less than or equal to B, and display it in the command window.

```
clear,clc

A=3
B=20
if A=B
disp('A is equal B')
elseif A>B
disp('A is greater than B')
else disp('B is greater than A')
end
```

2 Plot function f(x), for which:

$$f(x) = \begin{cases} -2x & x \leq 0 \\ x & 0 < x \leq 1 \\ x^2 & x > 1 \end{cases}$$

x is in the range <-2,3>. Use the <code>for</code> loop and the <code>if</code> commands. Create script (<code>if_2pen.m</code>).

```
clear, clc
   x=-2:0.1:3;
    f=[];
    for i=1:length(x)
        if x(i) \leq 0
            f(i)=-2*x(i);
      elseif x(i)<1
            f(i)=x(i)
     else f(i)=x(i)^2
10
11
        end
12
    end
    plot(x,f,'*-')
13
```

