

Consider the following code which determines the three largest Elements of the vectors x and y

```
x=[1,8,-5,6,-2];  
y=[0.3,-1.2,-1.3,4,2,-4.8];  
  
sorted_x=sort(x,'descend');  
sorted_y=sort(y,'descend');  
top3x=sorted_x(1:3);  
top3y=sorted_y(1:3);
```

Since there is some redundancy one could put a part of the code into a function. (See implementation at the bottom). The calculations in the script could then be done using the following function calls:

```
top3x=getLargest3(x)
```

```
top3x = 1x3  
      8      6      1
```

```
top3y=getLargest3(y)
```

```
top3y = 1x3  
      4.0000      2.0000      0.3000
```

```
function top3=getLargest3(v)  
    sortedV=sort(v,'descend');  
    top3=sortedV(1:3);  
end
```