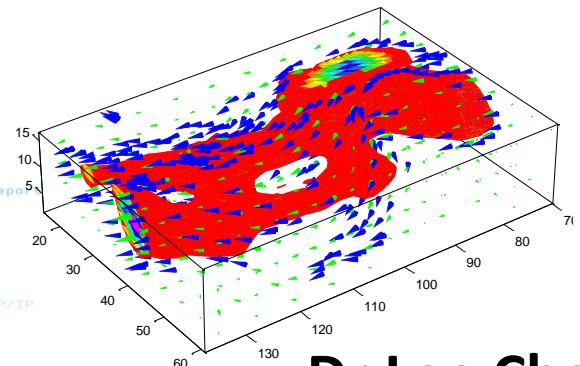
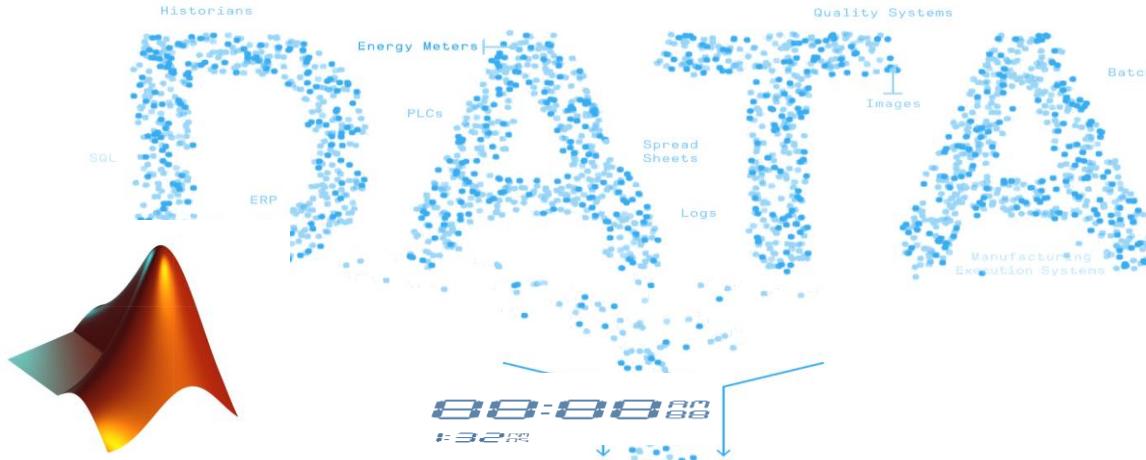




MATLAB Fundamental Laboratory Handbook (MATLAB)

Chapter 4 Selection Statements



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4. 1 Lab

Objective: Exercise **if** selection statement

Content: For any input natural number, determine whether it is odd or even.

```
x=input('Please input a natural number:' );  
  
if mod(x, 2)==1  
    disp(' It is a odd number.' )  
else  
    disp(' It is a even number.' )  
end
```

4. 2 Lab

Objective: Exercise **elseif** selection statement

Content: Reassign any input value, assigning 1 if greater than 0, -1 if less than 0, and not replacing if equal to 0.

```
x=input('Please input the value for x:');

If      x>0
    x=1;
elseif  x<0
    x=-1;
else
    x=0
end
disp(x)
```

4. 3 Lab

Objective : Exercise **nested elseif** selection statement

Content: Please give the grade according to the test score. The grading method is: If the score is greater than or equal to 90, it is A; score less than 90 but greater than or equal to 60 is B; If it is less than 60, it is C.

```
score=input('Please input the score: ') ;  
  
if      score>=90  
    grade='A' ;  
    elseif score>=60  
        grade='B' ;  
    else  
        grade='C' ;  
end  
disp(grade)
```

4. 4 Lab

Objective : Exercise **switch** selection statement

Content: Determine the value of season based on the entered month.

```
month=input('Please input the month:');  
switch month  
case {3, 4, 5}  
    season = 'Spring';  
case {6, 7, 8}  
    season = 'Summer';  
case {9, 10, 11}  
    season = 'Autumn';  
otherwise  
    season = 'Winter';  
end  
disp(season)
```