

CHE/CEN I 38

COMPUTER PROGRAMMING

CONDITIONAL CONTROL

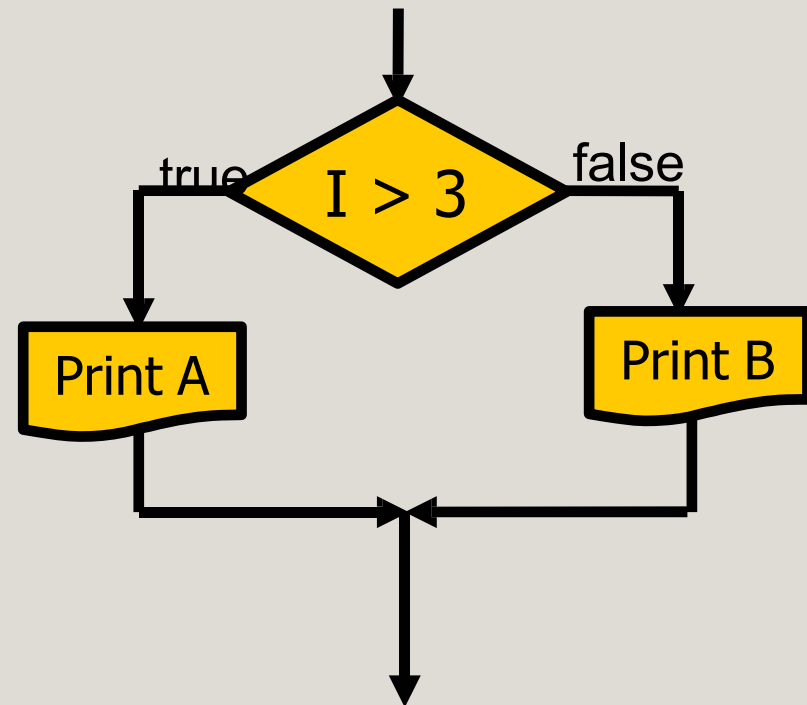
References

1. Prata, R. "Getting Started with MATLAB: A Quick Introduction for Scientists and Engineers" Oxford University Press, 2010.
2. Hunt, B.R., Lipsman, L.R. and Rosemberg J. M. "A guide to MATLAB for Beginners and Experienced Users" Cambridge University Press, 2001.
3. Kubat, C. "MATLAB Yapay Zeka ve Mühendislik Uygulamaları" İkinci Baskı, Pusula Yayıncılık, 2014 McGraw Hill, International Edition 2012.

MATLAB STATEMENT TYPES (CONDITIONALS)

Conditionals:

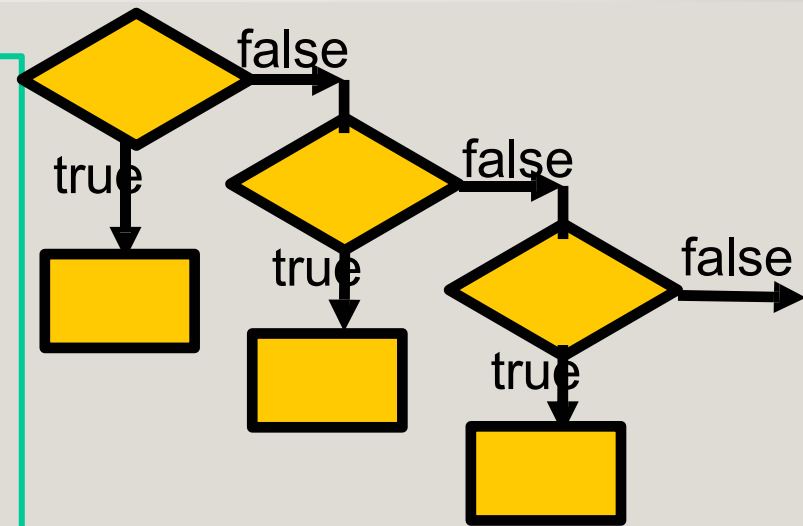
```
if <condition>  
    <commands>  
else  
    <commands>  
end
```



Matlab Statement types (Conditionals)

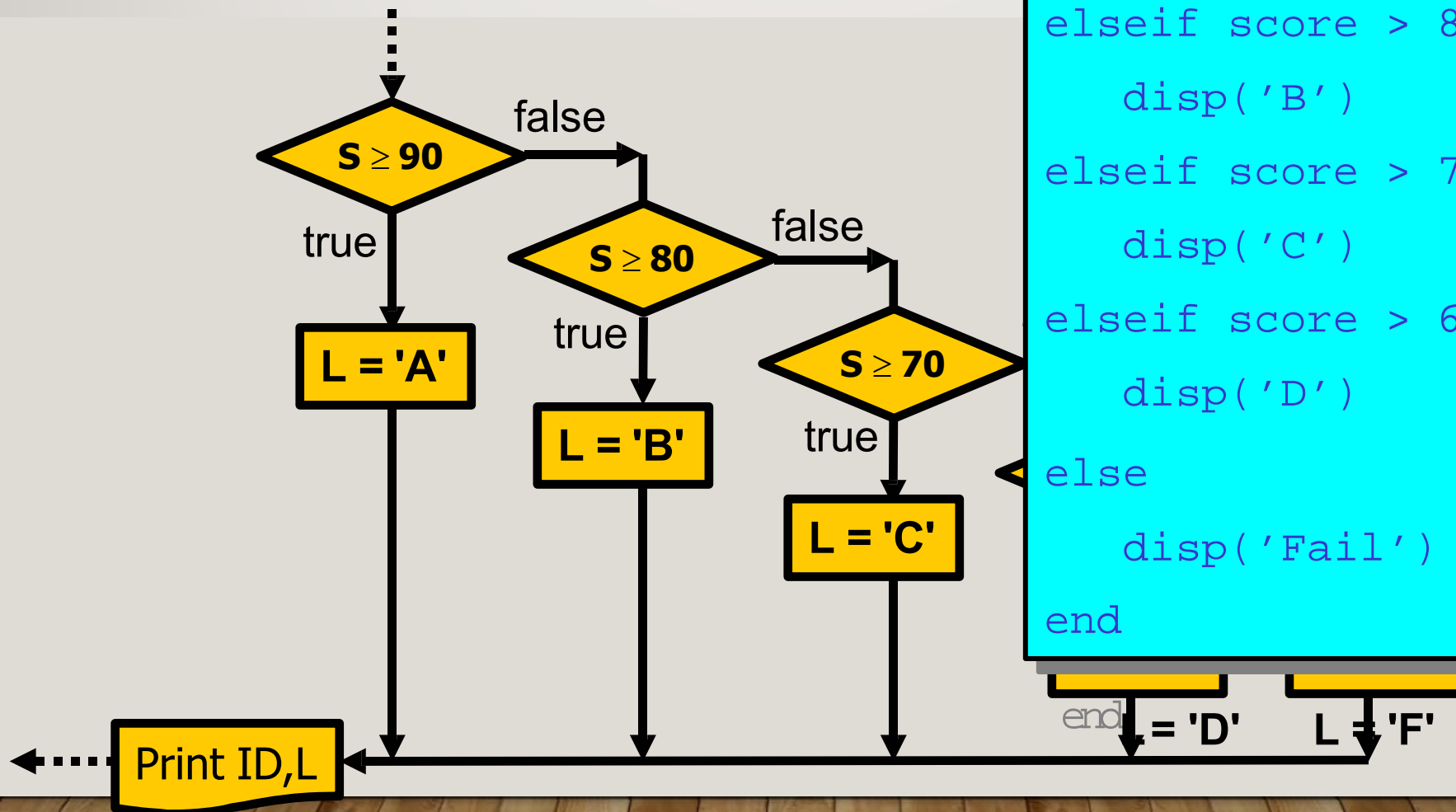
Cascaded conditionals:

```
if <condition>  
    <commands>  
elseif <condition>  
    <commands>  
else  
    <commands>  
end
```



MATLAB STATEMENT TYPES (CASCADED CONDITIONALS)

```
if score > 90
    disp('A')
elseif score > 80
    disp('B')
elseif score > 70
    disp('C')
elseif score > 60
    disp('D')
else
    disp('Fail')
end
```



EXAMPLES

i=6; j=21;

if i>5

k=i;

elseif (i>1) & (j==20)

k=5*i+j;

else

k=1;

end

EXAMPLES

```
T=8;
if T<10
V=(60/10)*T;
elseif (T>=10) & (T<25)
V=60;
else
V=60-(60/10)*(T-25);
end
X=['V = ', num2str(V)];
disp(X)
```

EXAMPLES

```
T=input('Enter T:');  
if T<10  
V=(60/10)*T;  
elseif (T>=10) & (T<25)  
V=60;  
else  
V=60-(60/10)*(T-25);  
end  
X=['V = ', num2str(V)];  
disp(X)
```