%While loops

%you won a small grant of 2000$ to run your independent study. With this

%money you have to pay the participants (75$ each). You also want to stop enrolling

%participants when your balance is less than 800$ because you need to

%travel to a conference to present your project!

%write the while loop!

grant = 2000

while(grant > 800)

 grant = grant - 75

end

%

%write a loop that... while the "value" is smaller than 10, than you subtract 2

%from "value"

value = 9

while %%complete

 value = %complete

end

%Write a loop where you increment by 1 starting from n=1 until n = 20.

%so while n < 20, if the number is even, display "it's even", if the number

%is odd, display "it's odd". Use the " mod() " function to determine if a

%number is even or odd. Check the documentation.

n = 1

while (n <=20)

 n = %complete

 if %complete

 disp("it's even!")

 %complete

 %complete

 %complete

%complete

%%CONTROL STATEMENT!!STOP HERE

%CONTINUE

%you are analyzing fMRI (functional neuroimaging) data and you noticed

%that subject 4 moved too much and the images cannot be analyzed. You want

%to run a script that analyzes all the subject but when it arrives to

%subject 4, it skips it and keeps going with subject 5.You have 12 subjects

%to analyze.

sub = 0 %start from sub 1 with the first iteration

while(sub %%% complete

 sub = sub+1;

 if %%%% complete

 %%%%% complete

 end

 sub

end

# BREAK

%we are recruting participants between 18 and 65. however we are focusing

%on the age group 18-25. Break the loop when the counter increases above

%25.

age = 18;

% while loop execution

while (age < %complete )

 fprintf('value of a: %d\n', age);

 age = %%complete;

 if( age > %complete )

 % terminate the loop using break statement

 %complete

 end

end

# For loop and While loop together!

% in a study we have 10 participants. Each study session is composed by 5

% runs. You have to increment by one the number of videos until

%n\_video < to the number of runs for each particiapnts.

run = 5;

for participant = %you will loop through 10 participants

 % set here n\_video = 1

 %print the index of the for loop and suppress the output.

 while %complete

 %complete

 end

end