24-11-2016

MECE101 Midterm Exam

Name:

Surname:

Number:

Q1) The MATLAB code below is executed. As the result of execution of this code what will be the final value of variables ‘a’, ‘count’, ‘k’ and ‘m’ when the ‘while loop’ is terminated. **(50 points)**

clear all

a=5;

k=1;

m=1;

count=0;

while a==5 | a==15,

 count=count+1;

 a=a/k;

 if m==1

 for i=1:4,

 a=a+i;

 end

 else

 for i=1:4,

 k=k+1;

 end

 end

 m=2;

end

Q2) The MATLAB code below is executed. As the result of execution of this code what will be the final value of variable ‘k’. **(20 points)**

clear all

a=16;

b=16;

if a>b,

 k=5;

elseif a<b,

 k=20;

else

 if a+b==30,

 k=1;

 else

 k=2;

 end

end

Q3) The MATLAB code below is executed. As the result of execution of this code what will be the final value of variable ‘k’. **(10 points)**

clear all

a=6;

b=5;

if a==b,

 k=5;

else

 k=10;

end

Q4) The MATLAB code below is executed. As the result of execution of this code what will be the final value of variable ‘k’. **(10 points)**

clear all

a=[1 4 6];

b=[1 4 5];

if a(1)==b(1) & b(2)==a(2),

 k=1;

else

 k=2;

end

Q5) The MATLAB code below is executed. As the result of execution of this code what will be the final value of variable ‘k’. **(10 points)**

clear all

a=[1 4 6];

b=[1 4 5];

if a(1)==b(1) | b(3)==a(3),

 k=1;

else

 k=2;

end