**EXPERIMENT TWO**

**1/16/FET/BCG/1/OO7**

IAT=[0;6;1;4;3;6;5] //interarrival times generated from poisson distribution

ST=[2;3;1;1;1;1;2] //service times generated from exponential distribution

SWT=0 //server waiting time

CWT=0 //Customer Waiting time

SB=[0;0;0;0;0;0;0] //Service Begin Time for first Customer

AT=[0;0;0;0;0;0;0;] //Arrival Time of Customer

ISE=AT(1)+ST(1)

SE=[0;0;0;0;0;0;0] //Service End Time for first Customer

SE(1)=ISE

**for i=2:7 //**CORRECTION

AT(i)=AT(i-1)+IAT(i)

disp(AT(i))

end;

for i = 2:7

if AT(i)<SE(i-1) then

CWT=CWT+(SE(i-1)-AT(i))

SB(i)=SE(i-1)

SE(i)=SE(i-1)+ST(i)

else

SWT=SWT+AT(i)-SE(i-1)

SB(i)=AT(i)

SE(i)=AT(i)+ST(i)

end;

end;

for i=1:7

mprintf('%d %d %d %d %d\n', i ,AT(i),SB(i),ST(i),SE(i))

end;

printf('\nCuummulative waiting time')

disp(CWT)

