**%Problema 1:**

**clc;**

**n=input('Ingrese el valor de n:');**

**x=2:n;**

**t=(x.^2)./factorial(x);**

**t(2:2:end)=-t(2:2:end);**

**S=sum(t);**

**disp(S);**

**%Problema 2:**

**clc;**

**a=input('Ingrese el vector a: ');**

**b=input('Ingrese la base b: ');**

**k=length(a) - 1;**

**a=a(end:-1:1);**

**e=0:k;**

**N= sum( a.\*(2.^e));**

**disp(N);**

**%Problema 3:**

**clc;**

**C=input('Vector cotizaciones C: ');**

**M=C;**

**M(1)=[];**

**C(end)=[];**

**k=sum(M>C);**

**disp(k);**

**%Problema 4:**

**clc;**

**C=input('Vector col. de cargas C: ');**

**% probar con C: [100, 250, 350, 200]**

**N=length(C);**

**A=zeros(N,4);**

**A(:,1)=C;**

**for i=1:N**

 **if A(i,1)<=200**

 **A(i,2)=A(i,1);**

 **elseif A(i,1)<=300**

 **A(i,2)=200;**

 **A(i,3)=A(i,1)-200;**

 **else**

 **A(i,2)=200;**

 **A(i,3)=100;**

 **A(i,4)=A(i,1)-300;**

 **end**

**end**

**disp(A);**

**%Problema 5:**

**clc;**

**C=input('Vector col. de cargas C: ');**

**% probar con C: [100, 250, 350, 200]**

**N=length(C);**

**A=zeros(N,4);**

**A(:,1)=C;**

**for i=1:N**

 **if A(i,1)<=200**

 **A(i,2)=A(i,1);**

 **elseif A(i,1)<=300**

 **A(i,3)=A(i,1);**

 **else**

 **A(i,4)=A(i,1);**

 **end**

**end**

**disp(A);**