```
function value=lagrng(X,Y,x)
 value= 0;
 n= size(X,2);
 for i=1:n
 term=Y(i);
 num=1;
 den=1;
 for j=1:n
 if i==j
 continue;
 else
 num=num*(x-X(j));
 den=den*(X(i)-X(j));
 end
 end
term=term*(num/den);
 value=value+term;
 end
 end
```

```
function value=lagrng(X,Y,x)
 value= 0;
 n= size(X,2);
 for i=1:n
 term=Y(i);
 num=1;
 den=1;
 for j=1:n
 if i==j
 continue;
 else
 num=num*(x-X(j));
 den=den*(X(i)-X(j));
 end
 end
term=term*(num/den);
 value=value+term;
 end
 end
```