
```
clear all
clc

%n!
n = 8;
if (n>=0)
    a=1;
    if n == 0
        a = 1;
        return
    end
    for y= 1:n;
        a = a*y;
    end
else
    disp("ERROR n is negative")
end

%k!
k = 7;
if (n>=0)
    b=1;
    if k == 0
        b = 1;
        return
    end
    for y= 1:k
        b = b*y;
    end
else
    disp("ERROR k is negative")
end

%(n-k)!
t = n-k;
if t>=0
    x=1;
    if t == 0
        x = 1;
        return
    end
    for y =1:t;
        x = x*y;
    end
else
    disp("ERROR n-k is negative")
end

%Runs function and returns answer!
z = a/(b*x);
```

```
disp(z)
```

```
8
```

```
clear all  
clc
```

```
%n!  
n = 3;  
if (n>=0)  
    a=1;  
    if n == 0  
        a = 1;  
        return  
    end  
    for y= 1:n;  
        a = a*y;  
    end  
else  
    disp("ERROR n is negative")  
end
```

```
%k!  
k = 4;  
if (n>=0)  
    b=1;  
    if k == 0  
        b = 1;  
        return  
    end  
    for y= 1:k  
        b = b*y;  
    end  
else  
    disp("ERROR k is negative")  
end
```

```
%(n-k)!  
t = n-k;  
if t>=0  
    x=1;  
    if t == 0  
        x = 1;  
        return  
    end  
    for y =1:t;  
        x = x*y;  
    end  
else  
    disp("ERROR n-k is negative")  
end
```

```
%Runs function and returns answer!
z = a/(b*x);
disp(z)

ERROR n-k is negative

Unrecognized function or variable 'x'.

Error in homework3 (line 107)
z = a/(b*x);

clear all
clc

%n!
n = -4;
if (n>=0)
    a=1;
    if n == 0
        a = 1;
        return
    end
    for y= 1:n;
        a = a*y;
    end
else
    disp("ERROR n is negative")
end

%k!
k = 3;
if (n>=0)
    b=1;
    if k == 0
        b = 1;
        return
    end
    for y= 1:k
        b = b*y;
    end
else
    disp("ERROR k is negative")
end

%(n-k)!
t = n-k;
if t>=0
    x=1;
    if t == 0
        x = 1;
        return
```

```
        end
        for y =1:t;
            x = x*y;
        end
    else
        disp("ERROR n-k is negative")
    end

    %Runs function and returns answer!
    z = a/(b*x);
    disp(z)
```

Published with MATLAB® R2020a