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% Sample Program to Illustrate User-Defined Function
[ID sales] = textread('sample.dat');
n = length(sales);
for(k = 1:n)
   if(sales(k) <= 30000)
      com(k) = .20*sales(k);
   else
      com(k) = 6000 + .25*(sales(k) - 30000);
   end
   if(com(k) <= 3000)
      wt = .05*com(k);
   elseif(com(k) <= 6000)
      wt = 150 + .07*(com(k) - 3000);
   elseif(com(k) <= 10000)
      wt = 360 + .09*(com(k) - 6000);
   else
      wt = 720 + .12*(com(k) - 10000);
   end
   net_pay(k) = com(k) - wt;
   fprintf('ID=%d Sales=$%.2f Com=$%8.2f WT=$%.2f Net Pay=$%8.2f\n', ...
      ID(k), sales(k), com(k), wt, net_pay(k));
end
[sum_sales  avg_sales  max_sales  min_sales] = stats(sales);
[sum_com  avg_com  max_com  min_com] = stats(com);
[sum_net_pay  avg_net_pay  max_net_pay  min_net_pay] = stats(net_pay);
fprintf('\n');
fprintf('Sales: Total=$%.2f Average=$%.2f Highest=$%.2f Lowest=$%.2f\n', ...
        sum_sales, avg_sales, max_sales ,min_sales);
fprintf('Commission: Total=$%.2f Average=$%.2f Highest=$%.2f Lowest=$%.2f\n', ...
        sum_com, avg_com ,max_com, min_com);
fprintf('Net Pay: Total=$%.2f Average=$%.2f Highest=$%.2f Lowest=$%.2f\n', ...
        sum_net_pay, avg_net_pay, max_net_pay, min_net_pay);



% function stats
function [tot_a, avg_a, max_a, min_a] = stats(a)
n = length(a);
sum_a = 0;
max_a = 0;
min_a = 1000000;
for(k=1:n)
   sum_a = sum_a + a(k);
   if(a(k) > max_a)
      max_a = a(k);
   end
   if(a(k) < min_a)
      min_a = a(k);
   end
end
tot_a = sum_a;
avg_a = sum_a/n;
```