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## **Homework Problem 2 Part C**

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```
clear;
clc;
close all;
```

# **Variables**

```
h = input('Total cost of the house: ');
p = input('Downpayment on the house: ');
r = input('Interest rate in percent form: ');
y = input('How many years for the loan: ');
```

### **Calculations**

```
P = h-p; %Finds principal payment r = r/100; M=P*(r/12)./(1-(1+r/12).^(-12*y)); % Monthly payment A = P*(1+r/12).^(12*y); % Total cost with loan K = A-P; % Difference in loan - not a loan
```

# **Outputs**

```
fprintf('Your monthly payment is \%.2f for \%d months\n', M, y.*12); fprintf('You will have to pay this much more by taking out a loan: \%.2f\n', K)
```

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