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PNS Practical 2

1. Relative Frequency Definition : Relational Operator (without if else)

Code :

File - tosscoin.m

```
function outpt = tosscoin(n)
  for i = 1:n
    rndm = randi(2,1);
    if rndm == 1
      outpt(1,i) = "H";
    else
      outpt(1,i) = "T";
    endif
  endfor
endfunction
```

```
clc;
clear all;
close all;

n = input("Enter number of tosses : ");

outpt = tosscoin(n);
printf("\n\tOutcome : %s", outpt);
heads=0;
tails=0;
for i = 1:n
  heads = heads + (outpt(i)=="H");
  tails = tails + (outpt(i)=="T");
endfor
```

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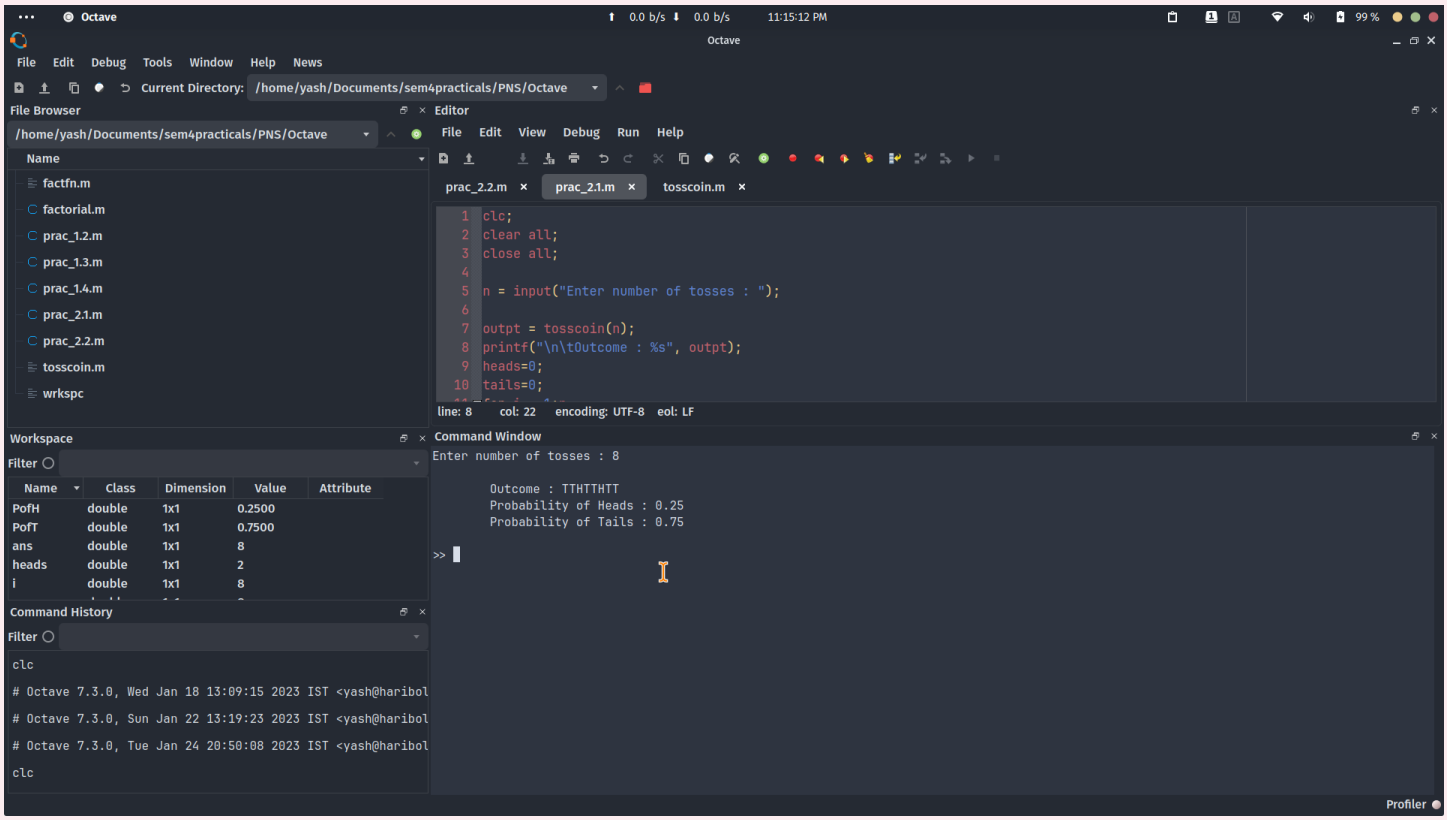
Output :



2. Relative Frequency Definition : find and length function

Code :

```
clc;
clear all;
close all;

n = input("Enter number of tosses : ");

outpt = tosscoin(n);
printf("\n\tOutcome : %s", outpt);
```

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```
heads = length(find(outpt=="H"));
tails = length(find(outpt=="T"));

PofH = heads/n;
printf("\n\tProbability of Heads : %d", PofH);
PofT = tails/n;
printf("\n\tProbability of Tails : %d", PofT);
```

Output :