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%First FreeMat Programming Assignment
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clc;
clear all;
close all;


%Task 1

x = 3.5;
y = -1.8;
z = pi/3;

(x^2 + y^3)*(sin(z))

%Task2

for(i = 1:10)
    randi(1,6)
end

%Task 3
A = [1,3,1;0,5,0;-1,3,-1];

B = [1,2,3;4,5,6;7,8,9];

A*B

B*A

A+B

A-B

2*A+3*B

%Task 4 Not done

d = 2;
s = 1;
n = 99;

for(i = 1:1:n)


    s = s + i;
    d = d + s;
```

```
end

d

%Task 5

a = (3*pi)/4;

sin(cos(a))

%Task 6
n = 12;
factorial = 1;
for(i = 1:1:n)
    factorial = factorial*i;
end

factorial

%Task 7

x = (-pi*4: 0.1: pi*4);
y= 3 * sin(x);


plot(x,3y,'r');
title('Sine');
```