```
clc;
clear all;
close all;

t=0:0.0005:0.05
```

```
t = 1×101
       0    0.0005    0.0010    0.0015    0.0020    0.0025    0.0030 ⋯
```

```
f=input("Enter the frequency f: ");

% cos(200πt)
x1=cos(2*pi*f*t);
subplot(3,1,1);
plot(t,x1);
xlabel('Time');
ylabel('Amplitude');
title('Fig 1: cos(2πft)');

% cos(200πt + π/6)
x2=cos(2*pi*f*t+pi/6);
subplot(3,1,2);
plot(t,x2);
xlabel('Time');
ylabel('Amplitude');
title('Fig 2: cos(2πft+π/6)');

% cos(200πt - π/6)
x3=sin(2*pi*f*t-pi/6);
subplot(3,1,3);
plot(t,x3);
xlabel('Time');
ylabel('Amplitude');
title('Fig 3: cos(2πft-π/6)');
```

Fig 1: cos(2πft)

Amplitude

Time

Fig 2: cos(2πft+π/6)

Amplitude

Time

Fig 3: cos(2πft-π/6)

Amplitude

Time