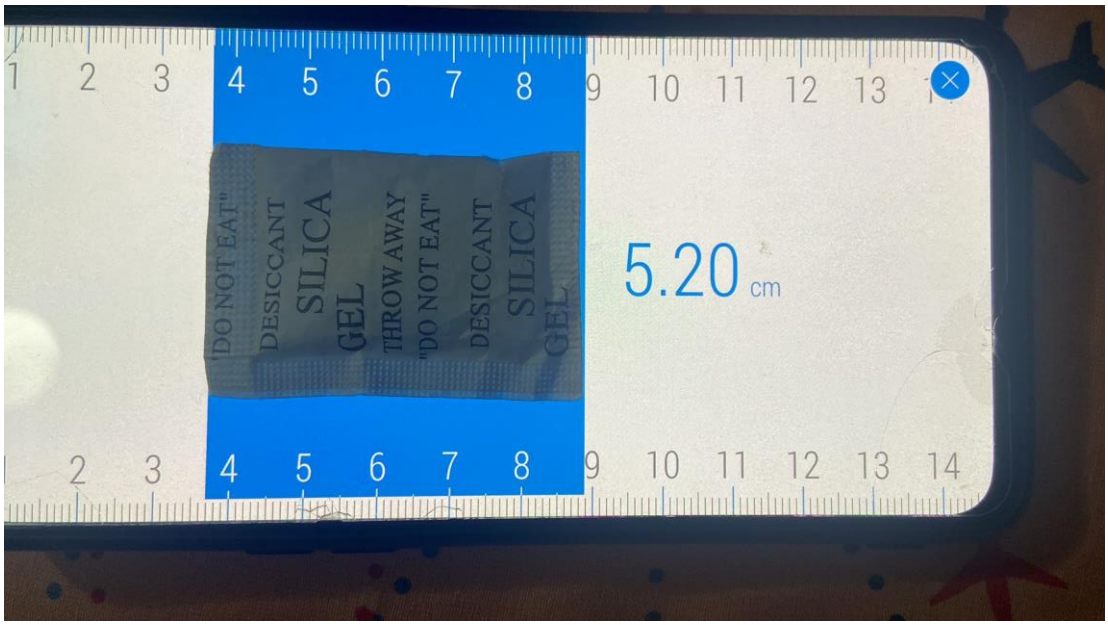
```
I = imread('16641553972049.jpeg'); % Read the image
imshow(I); % Display the image
[x y] = ginput(2); % reads two points. x is a 2x1 column vector with x
coordinates and y is a 2x1 column vector with y coordinates.
```

```
%Focal length from part A
fx = 1523.38;
fy = 1528.62;

%distance between camera and object
z0 = 29.22;

%point1
x1 = z0*(x(1)/fx);
y1 = z0*(y(1)/fy);

%point2
x2 = z0*(x(2)/fx);
y2 = z0*(y(2)/fy);


% using Euclidean distance to find the distance between point1 and point2
dist = sqrt((x2-x1)^2 + (y2-y1)^2);
disp("the distance between the two points is");
```

```
 the distance between the two points is
```

```
disp(dist);
```

```
    5.2384
```


1 2 3 4 5 6 7 8 9 10 11 12 13
"DO NOT EAT" DESICCANT SILICA GEL THROW AWAY "DO NOT EAT" DESICCANT SILICA GEL
5.20 cm
2 3 4 5 6 7 8 9 10 11 12 13 14