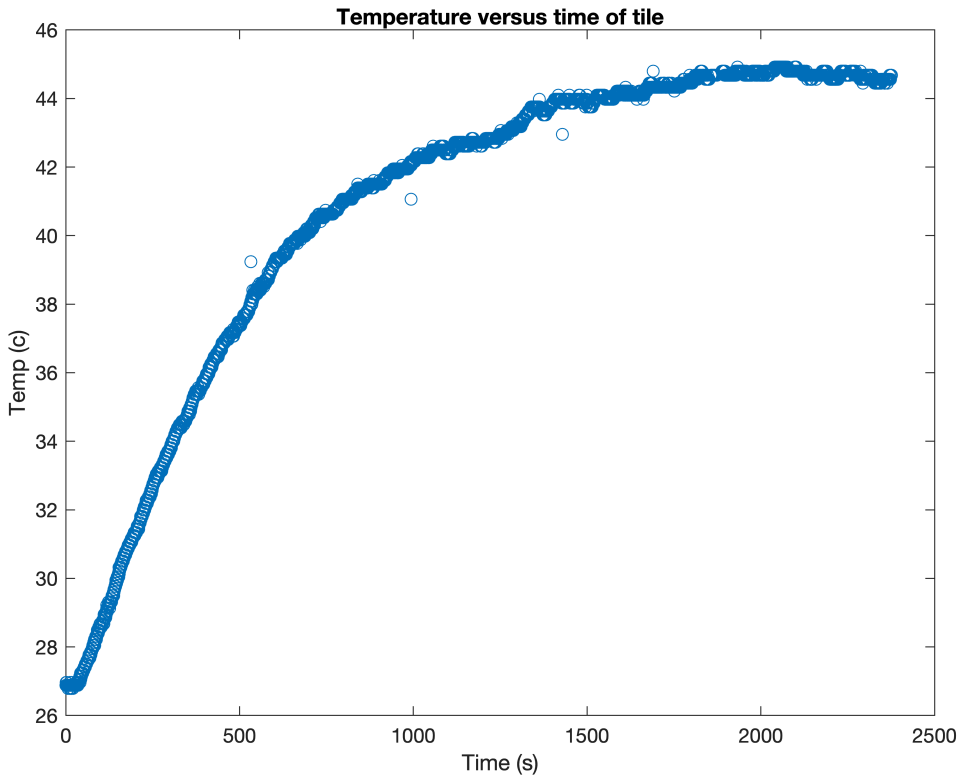
Load the data from a saved material (created during the experimental process)

```
data = load("run1_heating.mat");
data = data.data;
```

Plot the data

```
time = nonzeros(data(:,1));
temp = nonzeros(data(:,2));
plot(time,temp, "o")
title("Temperature versus time of tile")
xlabel("Time (s)")
ylabel("Temp (c)")
saveas(gcf,'experiment-plot.png')
```



Find the specific heat

```
q = 5 % W
```

```
q = 5
```

```
m = 1 % g
```

```
m = 1
```

```
temp(end)
```

```
ans = 44.6798
```

```
temp(1)
```

```
ans = 26.8767
```

```
dt = temp(end)-temp(1) % c
```

```
dt = 17.8032
```

```
cp = q/m*dt % does this actually make sense?
```

```
cp = 89.0158
```