

DSR LAB - 08

i). Build a linear regression model for the given x & y values.

A) temp = c(50, 53, 54, 55, 56, 59, 62, 65, 67, 71, 72, 74, 75, 76, 79)
yield = c(122, 118, 128, 121, 125, 136, 144, 142, 149, 161, 167, 168, 162, 171, 175).

```
cor(temp, yield)
```

```
df = data.frame(temp, yield)
```

```
plot(temp, yield)
```

```
df.lm = lm(yield ~ temp, data = df)
```

```
summary(df.lm)
```

```
df.lm$coefficients
```

```
df.lm$residuals
```

```
df.lm$fitted.values
```

```
abline(coef(df.lm))
```