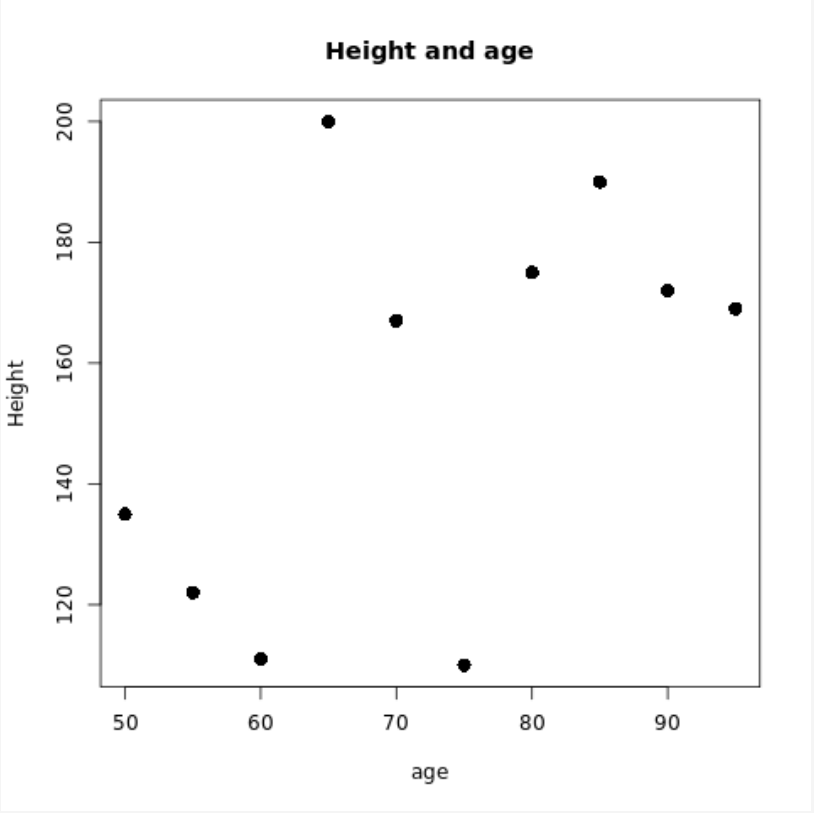
1. Plot a scatter data for the given excel sheet

```
x <- c(135, 122, 111, 200, 167, 110, 175, 190, 172, 169)
y <- c(50,55,60,65,70,75,80,85,90,95)
output<- lm(y~x)
plot(y,x, main="Height and age", xlab="age", ylab="Height",abline(lm(y~x)), cex=1.5, pch=16)
```

Output

```
[Execution complete with exit code 0]
```



2. Linear Models function

```
x <- c(100,101,199,180,128,124,156,132,144,155)
y <- c(51,52,53,54,55,56,57,58,59,70)

a<- lm(y~x)
b<-data.frame(x=180)
result<-predict(a,b)
print(result)
summary(result)
```

Output

```
       1
57.85044
   Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
  57.85   57.85   57.85   57.85   57.85   57.85

[Execution complete with exit code 0]
```