Problem 4

January 19, 2021

Question 4a (scroll down to see the plot)

Find the names of the Pokemon which are taller than 2 meters and are Legendary.

[1]:
```
poke = read.csv(file = "pokemon_2019.csv",header=TRUE,sep = ",")
x = poke[poke[,"Height_m"]>2 & poke[,"isLegendary"] == "True","Name"]
y = as.vector(x)
for (i in seq_along(y)){
    print(y[i])
}
```

```
[1] "Moltres"
[1] "Mewtwo"
[1] "Entei"
[1] "Suicune"
[1] "Lugia"
[1] "Ho-Oh"
[1] "Latios"
[1] "Kyogre"
[1] "Groudon"
[1] "Rayquaza"
[1] "Dialga"
[1] "Palkia"
[1] "Regigigas"
[1] "Giratina"
[1] "Arceus"
[1] "Cobalion"
[1] "Virizion"
[1] "Reshiram"
[1] "Zekrom"
[1] "Kyurem"
[1] "Xerneas"
[1] "Yveltal"
[1] "Zygarde"
```

Questrion 4b

[2]:
```
par(mfrow=c(1,1))
ha = poke[poke$Body_Style == 'head_arms',]
```

```
sb = poke[poke$Body_Style == 'serpentine_body',]
plot(ha$Attack,ha$Defense,main="Attack vs Defense",
     xlab="Attack",
     ylab="Defense",
     col = 4,
     type = 'p',
     ylim=c(10,210),xlim=c(10,160))
points(sb$Attack,sb$Defense,col=2)
legend(x="topleft",col=c(4,2),pch=c(1,1),
       c("Head Arms body type","Serpentine Body body type"))
```