Lab_1

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```
knitr::opts_chunk$set(echo = TRUE)
```

Fix data

```
fix_data <- function(df) {
  format_num_column <- function(original_col) {
    if (all(length(grep("[^0-9 .-]+", original_col)) == 0)) {
      original_col <- as.numeric(sub(' ', '', original_col))
    }
    return(original_col)
}
return(data.frame(lapply(df, format_num_column)))
}</pre>
```

Program

```
df = read.csv('data.csv')
print(df)
          V1
                  ۷2
                           VЗ
                                   ۷4
## 1 -2. 5935
                II 2
                       0.4984 ST 123E -2.154 4
## 2 -0.2888 ST 123E
                       1.5636 ST 123E
## 3 -0.828 6 ST 123E -0.9 791 HP 129 -0. 4989
## 4 -0. 322 ST 123E -0.3013 HP 129
                                       -0.4032
## 5 -0.5588 ST 123E
                      1.2694 HP 129 0.703 9
print(fix_data(df))
         V1
                 ٧2
                         VЗ
                                 ٧4
## 1 -2.5935
               II 2 0.4984 ST 123E -2.1544
## 2 -0.2888 ST 123E 1.5636 ST 123E 0.1053
## 3 -0.8286 ST 123E -0.9791 HP 129 -0.4989
## 4 -0.3220 ST 123E -0.3013 HP 129 -0.4032
## 5 -0.5588 ST 123E 1.2694 HP 129 0.7039
```

Get ID

```
get_id <- function(dfs) {
  merged = Reduce(function(x, y) merge(x, y, by='id'), dfs)
  return(data.frame(id=merged$id, mean_temp=rowMeans(merged[, -c(1)])))
}</pre>
```

Program

```
load('data.RData')
print(get_id(data))
```

```
##
     id mean_temp
      1 36.37046
## 1
## 2
     2 36.65626
     3 36.73910
## 4
     4 36.34524
## 5
     5 36.83133
## 6
     6 36.54502
## 7
      7 36.66947
      8 36.73740
## 8
## 9
     9 36.73481
## 10 10 36.45994
## 11 11 36.52647
## 12 14 36.39976
## 13 18 36.74270
## 14 19 36.74740
```