# Grade calculator

```
library(tidyverse)
```

## Input grades

Input all of your grades below:

```
#input HW grades (out of 50 points)
hw01 <- 50
hw02 <- 50
hw03 <- 50
hw04 <- 50
hw05 <- 50
stat_exp <- 50
```

```
#input lab grades (out of 50 points)
lab01 <- 50
lab02 <- 50
lab03 <- 50
lab04 <- 50
lab05 <- 50
lab06 <- 50
lab07 <- 50
lab07 <- 50
```

```
# input quiz grades
quiz01 <- 50 # out of 50
quiz02 <- 40 # out of 40
quiz03 <- 40 # out of 40</pre>
```

```
#input project grades
topic_ideas <- 5
proposal <- 10
peer_review <- 10
written_report <- 40
slides_video <- 25
reproducibility <- 5
video_comments <- 5
peer_teamwork <- 5</pre>
```

```
#participation + team feedback
ae_participation <- 100 #out of 100
team_feedback01 <- 10 #out of 10
team_feedback02 <- 10 # out of 10</pre>
```

## DO NOT CHANGE ANY CODE BELOW THIS POINT!

#### Calculate averages

HW average

HW average: 100

Lab average

```
# calculate lab average
lab_avg <- labs %>%
  arrange(score) %>%
  slice(-1) %>% #drop lowest HW grade
  summarise(mean = mean(score) * 2) %>% pull()
```

Lab average: 100

Quiz average

```
# combine quiz averages
quiz_avg <- quizzes %>%
arrange(score) %>%
```

Quiz average: 100

Project grade

Project grade: 100

Participation

```
# calculate team feedback points
team_feedback_avg <- mean(c(team_feedback01, team_feedback02)) * 10
participation_avg <- mean(c(ae_participation, team_feedback_avg))</pre>
```

Participation: 100

Calculate overall course average

```
course_avg <- quiz_avg * 0.30 +
hw_avg * 0.3 +
project_grade * 0.2 +
lab_avg * 0.15 +
participation_avg * 0.05</pre>
```

Course average: 100

#### **Summary**

HW average (weight: 30%): 100
Lab average (weight: 15%): 100
Quiz average (weight: 30%): 100
Project grade (weight: 20%): 100
Participation (weight: 5%): 100
Course average: 100