DS413-Class4

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```
#Classwork


library(tidyverse)

## -- Attaching packages --------------------------------------- tidyverse 1.3.0 --

## v ggplot2 3.3.3     v purrr   0.3.4
## v tibble  3.0.5     v dplyr   1.0.3
## v tidyr   1.1.2     v stringr 1.4.0
## v readr   1.4.0     v forcats 0.5.0

## -- Conflicts ------------------------------------------ tidyverse_conflicts() --
## x dplyr::filter() masks stats::filter()
## x dplyr::lag()    masks stats::lag()

#Question 1
x <- list(2, 4, 5, 9, 1)
y <- list(8, 7, 2, 8, 3)
z <- list(1, 8, 5, 4, 2)
pmap_dbl(list(x,y,z), sum)

## [1] 11 19 12 21  6

#Question 2
tribble( ~Student,  ~Gender,    ~Salary,
        "John",   "Male",       65000,
        "Alice",  "Female",     73000,
        "Juan",   "Male",       66000,
        "Beth",   "Female",     71500,
        "Denise", "Female",   82000
```

```
) -> table


table%>%
  pmap_chr(~ str_glue("{..1} who is {..2}, has a salary that is {..3} dollars per year"))
```

```
## [1] "John who is Male, has a salary that is 65000 dollars per year"
## [2] "Alice who is Female, has a salary that is 73000 dollars per year"
## [3] "Juan who is Male, has a salary that is 66000 dollars per year"
## [4] "Beth who is Female, has a salary that is 71500 dollars per year"
## [5] "Denise who is Female, has a salary that is 82000 dollars per year"
```

```
#Question 3
z <- matrix( nrow = 5, ncol = 5)
for (m in 1:5) {
  for (n in 1:5) {
    z[m, n] <- (m + n)
  }
}
print(z)
```

```
##      [,1] [,2] [,3] [,4] [,5]
## [1,]    2    3    4    5    6
## [2,]    3    4    5    6    7
## [3,]    4    5    6    7    8
## [4,]    5    6    7    8    9
## [5,]    6    7    8    9   10
```

```
#Question 4
x <- 1:20
for (val in x) {
  if (val == 5| val==10){
    next
  }
  print(val)
}
```

```
## [1] 1
## [1] 2
## [1] 3
## [1] 4
## [1] 6
## [1] 7
## [1] 8
## [1] 9
## [1] 11
## [1] 12
## [1] 13
## [1] 14
## [1] 15
## [1] 16
## [1] 17
## [1] 18
## [1] 19
## [1] 20
```