In Class Assignment 4

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1.)

For Loop

```
x<- 1
print(x)
acc<- 0
xold <- 0
for (i in 1:14){
   acc <- xold + x xold <- x x <- acc print(x)
}
```

While Loop

```
x<- 1
print(x)
acc<- 0
xold <- 0
while(x <= 377){
     acc <- xold +x xold <- x x <- acc print(x)
}
```

Repeat Loop

```
x<- 1
print(x)
acc<- 0
xold <- 0
repeat{
    acc <- xold +x xold <- x x <- acc print(x) if(x == 610)
{ break }
}
```

2.)

```
X <- 50
Y <- 2
mymat <- matrix(rnorm(100,mean = X, sd = Y), 10, 10)
print(mymat)
apply(mymat, 1, FUN = mean)
# Mean by row
apply(mymat, 2, FUN = mean)
# Mean by column
apply(mymat, 1, FUN = sd) # Std. Deviation by row
apply(mymat, 2, FUN = sd) # Std. Deviation by column
```

3.)

a.)

```
TitanicSex <- apply(Titanic, 2, FUN = sum) print (TitanicSex)
```

b.)

```
apply(Titanic, c(2,4), FUN = sum)
```

c.)

```
apply(Titanic, c(2:3), FUN = sum)
```