LAB ASSIGNMENT 2 PROBABILITY & STATISTICS (UCS410)

TARUSHI GERA 102103391

```
1 * mode <- function(m){</pre>
       uniqv <- unique(m)</pre>
       uniqv[which.max(tabulate(match(m, uniqv)))]
  5 m \leftarrow c(3, 4, 7, 7, 9, 1)
  6 result <- mode(m)</pre>
    print(result)
      (Top Level) $
R 4.2.2 · ~/ ≈
> mode <- function(m){</pre>
    uniqv <- unique(m)</pre>
    uniqv[which.max(tabulate(match(m, uniqv)))]
> m < -c(3, 4, 7, 7, 9, 1)
> result <- mode(m)</pre>
> print(result)
[1] 7
>
```

```
1 Outcome <- sample(c("Success", "Failure"), size = 10, replace = TRUE, prob = c(0.9, 0.1))

2 print(Outcome)

3 # Tarushi 102103391

R Script :

R R4.22 --/

Outcome <- sample(c("Success", "Failure"), size = 10, replace = TRUE, prob = c(0.9, 0.1))

> print(Outcome)

[1] "Success" "Suc
```

```
7 Table_one <- 1/3
    8
         Table_two <- 1/3
   9 Table_three <- 1/3
10 gold_first <- 1
11 gold_second <- 1/2
   11 gold_second <- 1/2
12 gold_third <- 0
13 numerator <- Table_one * gold_first * gold_third + Table_two * gold_second * 1/2 + Table_three * gold_third
14 denominator <- Table_one * gold_first + Table_two * gold_second + Table_three * gold_third
15 drawer_two_gold <- numerator/denominator
   16 print(drawer_two_gold)
17 # Tarushi 102103391
  17:20 (Top Level) $
                                                                                                                                                         R Script $
R 4.2.2 · ~/ ≈
                                                                                                                                                       > Table_one <- 1/3
> Table_two <- 1/3
> Table_three <- 1/3
> gold_first <- 1
> gold_second <- 1/2
> gold_third <- 0
> numerator <- Table_one * gold_first * gold_third + Table_two * gold_second * 1/2 + Table_three * gold_t
hird * 0
> denominator <- Table_one * gold_first + Table_two * gold_second + Table_three * gold_third > drawer_two_gold <- numerator/denominator
> print(drawer_two_gold)
[1] 0.1666667
> # Tarushi 102103391
> |
```

