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**Subject:** Group 8 code part 1  
**Date:** 19September, 2022 at 10:57  
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```
library(tidyverse)
```

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```
trriage <- as.data.frame(read.csv("C:\\Users\\datathonadmin\\Downl
```

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```
trriage <- trriage %>%  
  mutate(code = as.factor(case_when(Htrriage == 1 ~ "1",  
                                     Htrriage == 2 ~ "2",  
                                     Htrriage == 3 ~ "3",  
                                     Htrriage == 4 ~ "4",  
                                     Htrriage == 5 ~ "5")))
```

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```
mod0 <- glm(new24hmrt ~ code, family = "binomial", data = sats0)  
exp(cbind(coef(mod0), confint(mod0)))
```

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```
mod1 <- glm(new24hmrt ~ code, family = "binomial", data = sats1)  
exp(cbind(coef(mod1), confint(mod1)))
```

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```
mod2 <- glm(new24hmrt ~ code, family = "binomial", data = sats2)  
exp(cbind(coef(mod2), confint(mod2)))
```

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```
table(sats0$code, sats0$new24hmrt)
```

## PERFORMANCE METRICS

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```
library(caret)
```

## non- SATS

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```
pred0 <- predict(mod0, newdata = sats0, type = "response")  
  
pred0 <- if_else(pred0 > 0.5 , 1, 0)  
confusionMatrix(data = factor(pred0),  
                 reference = factor(sats0$new24hmrt), positive = "
```

## SATS 1

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```
pred1 <- predict(mod1, newdata = sats1, type = "response")

pred1 <- if_else(pred1 > 0.5 , 1, 0)
confusionMatrix(data = factor(pred1),
                 reference = factor(sats1$new24hmrt), positive = "
```

## SATS 2

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```
pred2 <- predict(mod2, newdata = sats2, type = "response")
head(pred2)

pred2 <- if_else(pred2 > 0.5 , 1, 0)
confusionMatrix(data = factor(pred2),
                 reference = factor(sats2$new24hmrt), positive = "

###
```