```r
# Question 3
nutr_1 <- c(22, 20, 21, 18, 16, 14)
nutr_2 <- c(2, 14, 15, 10, 9, 6)
nutr_3 <- c(7, 9, 7, 6, 5, 3)

starch_content <- c(nutr_1, nutr_2, nutr_3)

print(starch_content)

nutrients <- c(rep(1, length(nutr_1)),
               rep(2, length(nutr_2)),
               rep(3, length(nutr_3)))

nutrients <- factor(nutrients)

print(nutrients)

model <- aov(starch_content ~ nutrients)

print(summary(model))

level_of_significance <- 0.10

if (summary(model)[[1]]["Pr(>F)"][1] < level_of_significance) {
  print("Significant at 10% level. Reject the null hypothesis")
  # Tukey's HSD test
  print("Tukey's HSD test:")
  tukey_result <- TukeyHSD(model, conf.level = 0.90)
  print(tukey_result)
  plot(TukeyHSD(model, conf.level = 0.90), las = 1, col = "red")
} else {
  print("Not significant at 10% level. Fail to reject the null hypothesis")
}
```

```r
# Question 5

driver_brand_1 <- c(251.2, 245.1, 248.0, 251.1, 260.5, 250.0, 253.9, 244.6)
driver_brand_2 <- c(263.2, 262.9, 265.0, 254.5, 264.3, 257.0, 262.8, 264.4)
driver_brand_3 <- c(269.7, 263.2, 277.5, 267.4, 270.5, 265.5, 270.7, 272.9)

brand_distances <- c(driver_brand_1, driver_brand_2, driver_brand_3)

brands <- c(rep(1, length(driver_brand_1)),
            rep(2, length(driver_brand_2)),
            rep(3, length(driver_brand_3)))

brands <- factor(brands)
print(brands)

model <- aov(brand_distances ~ brands)

print(summary(model))

level_of_significance <- 0.05

if (summary(model)[[1]]["Pr(>F)"][1] < level_of_significance) {
  print("Significant at 5% level. Reject the null hypothesis")
  # Tukey's HSD test
  print("Tukey's HSD test:")
  tukey_result <- TukeyHSD(model, conf.level = 0.95)
  print(tukey_result)
  plot(TukeyHSD(model, conf.level = 0.95), las = 1, col = "red")
  # Bonferroni
  print("Bonferroni test:")
  print(pairwise.t.test(brand_distances, factor(brands), p.adj = "bonf"))
} else {
  print("Not significant at 5% level. Fail to reject the null hypothesis")
}
```