```
#install.packages("ggplot2")
library(ggplot2)
# Sample data
x <- c(1, 2, 3, 4, 5)
y <- c(2, 5, 3, 8, 7)
# Fit linear regression model
model <- Im(y \sim x)
# Extract residuals
residuals <- resid(model)
# Plot residuals vs fitted values
ggplot(data.frame(Fitted = fitted(model), Residuals = residuals), aes(x = Fitted, y =
Residuals)) +
 geom_point() +
 geom_hline(yintercept = 0, linetype = "dashed", color = "red") +
 labs(title = "Residuals vs Fitted Values", x = "Fitted Values", y = "Residuals")
# Shapiro-Wilk normality test on residuals
shapiro_test <- shapiro.test(residuals)</pre>
# Q-Q plot of residuals
qqnorm(residuals)
qqline(residuals)
```