```
8
library(ggplot2)
# Create a simple data frame
data <- data.frame(
 Sales = c(150, 200, 250, 300, 350, 400, 450, 500, 550,
600,
       650, 700, 750, 800, 850, 900, 950, 1000, 1050,
1100).
 Engagement = c(20, 30, 40, 50, 60, 70, 80, 90, 100, 110,
          120, 130, 140, 150, 160, 170, 180, 190, 200,
210),
 Category = c('A', 'B', 'A', 'B', 'A')
)
# Scatter plot of Sales vs Engagement, colored by Category
ggplot(data, aes(x = Sales, y = Engagement, color=
Category)) +
 geom\ point(size = 3) +
 labs(
  title = "Sales vs Engagement",
  x = "Sales",
```

y = "Engagement"

)

```
# Create a line plot for Sales
ggplot(data, aes(x = Sales, y = Engagement)) +
 geom line(size = 1) +
 labs(
  title = "Sales Over Index",
  x = "Index",
  y = "Sales"
)
#Histogram
ggplot(data, aes(x=Sales)) +
 geom histogram(binwidth = 30, color = "blue") +
 labs(
  title = "qwerty",
  x = "qwerty",
  y = "qwerty"
)
# Box plot of Sales by Category
ggplot(data, aes(x = Category, y = Sales, fill = Category)) +
 geom boxplot() +
 labs(
  title = "Box Plot of Sales by Category", # Title of the plot
  x = "Category",
                                   # X-axis label
  y = "Sales"
                                 # Y-axis label
 )
```

```
ggplot(data, aes(x = "", y = Sales, fill = Category)) +
geom_bar(stat = "identity", width = 1) +
coord_polar(theta = "y") +
labs(title = "Sales by Category")
```