```
SET - 7
1)
# Define the data
x <- c(21, 62, 10, 53)
labels <- c("London", "New York", "Singapore", "Mumbai")
# Generate random rainbow colors
colors <- rainbow(length(x))
# Create the pie chart
pie(x, labels = labels, col = colors, main = "City Pie Chart")
2)
given mean (M) = 60, standard deviation (g) = 4
here we have to find (a) P(x \ge 68) (b) P(x < 55)
Z=(x-mu)/sigma = (x-60)/4
.P(x \ge 68) = P(z \ge 2) = 0.5 - A(2) = 0.5 - 0.477 = 0.0228
.P(x < 55) = P(z < -1.25) = 0.5 - A(1.25) = 0.5 - 0.3944 = 0.106
p1 = pnorm (55,60,4)
p2 = 1 - pnorm (68, 60,4)
print (p1)
print(p2)
3)
data(mtcars)
model <- Im(mpg ~ ., data = mtcars)
summary(model)
4)
sequence <- c()
num <- 1
for (i in 1:47) {
 if (num \%\% 2 == 0 || num \%\% 3 == 0) {
  sequence <- c(sequence, 0)
  sequence <- c(sequence, num)
 num <- num + 1
```

sequence