

Lampiran 5. Coding untuk Grafik distribusi *Generalized Gamma* pada 3 Parameter m_1 yang Berbeda, $a = 1, \gamma = 2, m_{11} = 1, m_{12} = 3$, dan $m_{13} = 5$

```
m <- 100
n <- 100
a <- 1
gam <- 2
m11 <- 1
m12 <- 3
m13 <- 5
x <- array(0, c(n, 1))
for (i in 1:n)
{
  x[i] <- i/10
}
F1 <- array(0, c(n, 1))
F2 <- array(0, c(n, 1))
F3 <- array(0, c(n, 1))

for (i in 1:n)
{
  F1[i] <- (a/(x[i]*gamma(m11)))*((x[i]/gam)^(a*m11))*(exp(-(x[i]/gam)^a))
  F2[i] <- (a/(x[i]*gamma(m12)))*((x[i]/gam)^(a*m12))*(exp(-(x[i]/gam)^a))
  F3[i] <- (a/(x[i]*gamma(m13)))*((x[i]/gam)^(a*m13))*(exp(-(x[i]/gam)^a))
}

plot(x, F1, type="l", xlim=range(0, 10), ylim=range(0, 1), xlab="x", ylab="fungsi GG",
     col="green", lty=1)
lines(x, F2, col="red", lty=2)
lines(x, F3, col="blue", lty=3)
legend(7.7, 1, c("m11 = 1", "m12 = 3", "m13 = 5"), col = c("green", "red", "blue"),
      text.col = "black", lty = c(1, 2, 3),
      merge = TRUE, bg = "white")
```