

SNS COLLEGE OF TECHNOLOGY



Coimbatore-35
An Autonomous Institution

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DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

19AMB302-FULL STACK AI

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PLOTTING OF DATA USING GENERIC PLOTS IN R PROGRAMMING – PLOT() FUNCTION



In this article, we will discuss how we plot data using Generic plots in R Programming Language using plot() Function.

plot function

plot() function in R Programming Language is defined as a generic function for plotting. It can be used to create basic graphs of a different type.

Syntax: plot(x, y, type)

Parameters

x and y: coordinates of points to plot

type: the type of graph to create

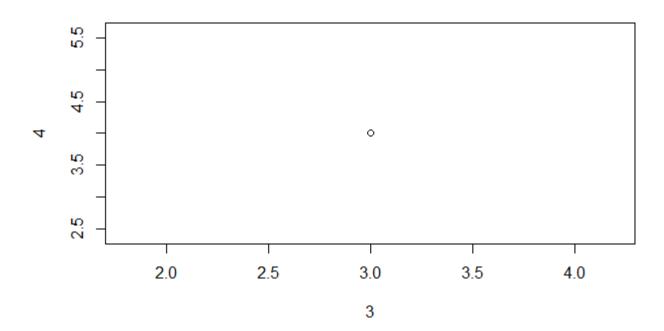
Returns: different type of plots

Draw Points using plot() Function in R plot(3, 4)



OUTPUT





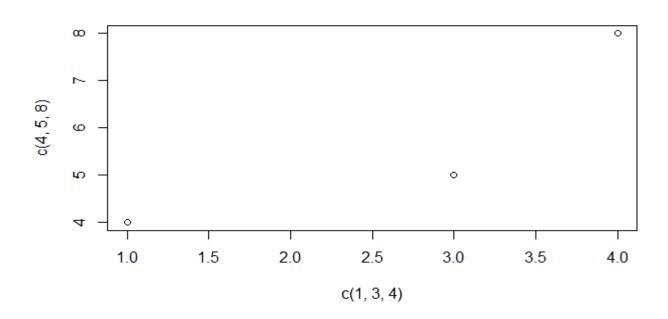


Draw Multiple Points



plot(c(1, 3, 4), c(4, 5, 8))

OUTPUT





R program to plot data # Values for x and y axis x <- 1:5 y <- x * x



```
# Using plot() function with additional settings
plot(x, y, type = "l", col = "blue", lwd = 2, xlab = "X-axis",
ylab = "Y-axis", main = "Quadratic Function")
```

Add grid lines grid()

Add points to highlight data points(x, y, col = "red", pch = 16)

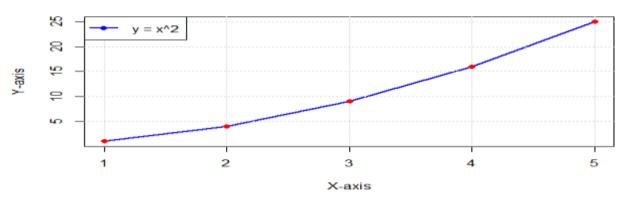
Add a legend legend("topleft", legend = "y = x^2", col = "blue", lty = 1, lwd = 2, pch = 16)



OUTPUT



Quadratic Function



In this code we creates a line plot with labeled axes, a title, grid lines, and additional points.

col: Specifies the color of the line, lwd: Sets the line width, xlab and ylab: Label the x-axis and y-axis, respectively.

main: Adds a title to the plot,grid(): Adds grid lines to the plot,points(): Adds points to the plot to highlight the data.

legend(): Adds a legend to the plot.





THANKYOU