**INPUT:**

#Set the seed for reproducibility

set.seed(123)

#Generate 80 random reaction times from a normal distribution

reaction\_times <- rnorm(80,mean=500,sd=100)

#Ensure the values are within the specified range

reaction\_times <- pmax(pmin(reaction\_times,800),200)

#Display the generated reaction times

print(reaction\_times)

**OUTPUT:**

> print(reaction\_times)

[1] 443.9524 476.9823 655.8708 507.0508 512.9288 671.5065 546.0916 373.4939 431.3147

[10] 455.4338 622.4082 535.9814 540.0771 511.0683 444.4159 678.6913 549.7850 303.3383

[19] 570.1356 452.7209 393.2176 478.2025 397.3996 427.1109 437.4961 331.3307 583.7787

[28] 515.3373 386.1863 625.3815 542.6464 470.4929 589.5126 587.8133 582.1581 568.8640

[37] 555.3918 493.8088 469.4037 461.9529 430.5293 479.2083 373.4604 716.8956 620.7962

[46] 387.6891 459.7115 453.3345 577.9965 491.6631 525.3319 497.1453 495.7130 636.8602

[55] 477.4229 651.6471 345.1247 558.4614 512.3854 521.5942 537.9639 449.7677 466.6793

[64] 398.1425 392.8209 530.3529 544.8210 505.3004 592.2267 705.0085 450.8969 269.0831

[73] 600.5739 429.0799 431.1991 602.5571 471.5227 377.9282 518.1303 486.1109