NATIONAL INSTITUTE OF TECHNOLOGY SILCHAR

Cachar, Assam

B.Tech. IVth Sem

Subject Code: CS216

Subject Name: Applied Probability

Submitted By:

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Branch : CSE – B

1. **Write down steps required to perform Kolmogorov-Smirnov Test in R programming with the help of an example. Also take two samples x1 and x2 and visualise it by plotting a graph of the test result using R.**

➔ **Steps:**

i. **Install 'dgof' package and load it.**

```
> install.packages ("dgof")
> library (dgof)
```

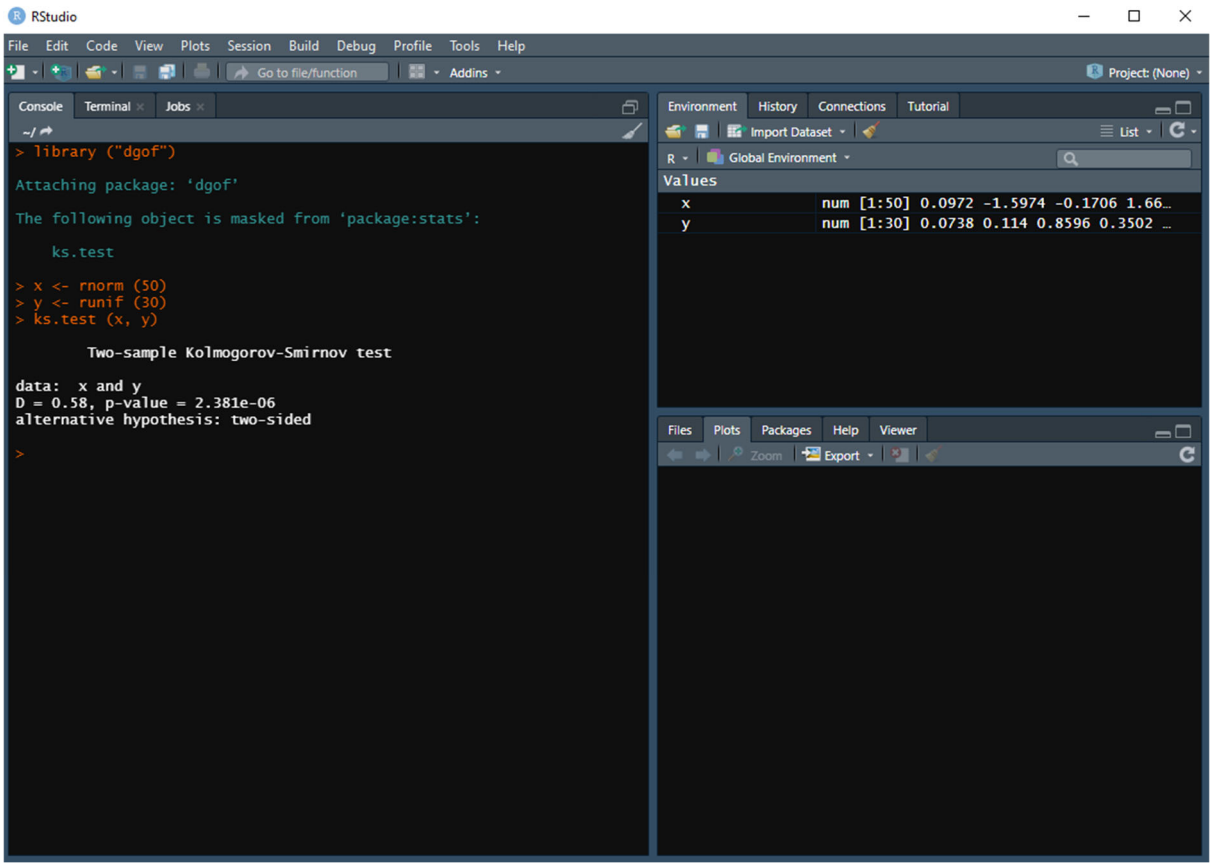
ii. **Generate samples x and y using the functions rnorm() and runif().**

```
# rnorm () is used to generate random variates
> x <- rnorm (50)
# runif () is used to generate random deviates.
> y <- runif (30)
```

iii. **Perform Kolmogorov-Smirnov Test on the samples x and y using the function ks.test().**

```
> ks.test (x, y)
```

Example:



Graph visualisation of two samples x1 and x2: