Using socat in Linux for creating VMs

    I.   To make VM using `socat`

To know the serial ports in Linux machine

`dmesg | grep tty`

To create VMs in Linux

`socat -d -d pty, raw, echo=0 pty, raw, echo=0`

open new terminal and use

`cat </dev/pts/4` (this may be different in your machine)

open another terminal and use

`echo "test string" > /dev/pts/7` (this may be different in your machine)

    II. BASH script for streaming data

Make a separate directory for BASH code. Write a function using the below code save in file with .sh file extension.

```
#! /bin/bash

while true
do
echo $(( $RANDOM%100 ))
sleep 1
done
```

    III. Use `socat` for streaming

Use the above BASH file to make numerical simulations.

```
socat -d -d pty,raw,echo=0
"exec:/media/hi/C2ACA28AACA278951/Windows/work/bash_scripts/random
Sim.sh ...,pty,raw,echo=0"
```

Twist your BASH file to create functions for few Discrete and Continuous probability functions.