

Task 3 run Example:

as can be seen we used long double and forced 17 numbers after the dot.

```
• maor@maor-VirtualBox:~/Desktop/05_EX1/Task3$ make
gcc -c Poisson.c
gcc -shared -o libpoisson.so Poisson.o -lm
gcc -c Main.c
gcc -o main Main.o -L. -lpoisson -lm -Wl,-rpath,.
• maor@maor-VirtualBox:~/Desktop/05_EX1/Task3$ ./main
P(X = 1, lambda = 2.0) = 0.27067056647322538
P(X = 10, lambda = 2.0) = 0.00003818985064878
P(X = 2, lambda = 2.0) = 0.27067056647322538
P(X = 3, lambda = 3.0) = 0.22404180765538774
P(X = 3, lambda = 100.0) = 0.0000000000000000000
```