**TASK 1: You need to produce random numbers from seed using:**

Use following algorithm:

1. Start

2. For loop (produce 1000 random numbers) set count = 0

3. Define seed ( A large number)

4. start loop (while or any other you like)

5. Calculate ran=16807\*seed mod (2^32 - 1)

6. Set seed equal to ran for the next iteration of the loop

7. Print random number you generated

8. Increase count by 1

9. Normalize random number so that it can be between 0 and 1

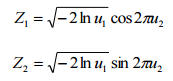
10. End Program

**TASK 2: Create 1000 random number using random.random()**

**TASK 3: plot scatter plot of task1 vs task2** random numbers. i.e. plt.scatter(ran1, ran2),

which distribution it is? Store random number from task1 and task2 in the pandas dataframe

**TASK 4: Convert above distribution to normal distribution using following:**



**TASK 5: Solve Integration using MC method**