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PS C:\Users\Martin Noboa\Desktop\Metodos> cd Activities/Activity04
PS C:\Users\Martin Noboa\Desktop\Metodos\Activities\Activity04> & "C:/Users/Martin Noboa/AppData/Local/Programs/Python/Python39/python.exe" "c:/Users/Martin Noboa/Desktop/Metodos/Activities/Activity04/chiSquaredTest.py"
[ 0.0 - 0.1 ] 0 3.0 3.0
[ 0.1 - 0.2 ] 3 3.0 0.0
[ 0.2 - 0.3 ] 3 3.0 0.0
[ 0.3 - 0.4 ] 4 3.0 0.3333
[ 0.4 - 0.5 ] 5 3.0 1.3333
[ 0.5 - 0.6 ] 6 3.0 3.0
[ 0.6 - 0.7 ] 0 3.0 3.0
[ 0.7 - 0.8 ] 2 3.0 0.3333
[ 0.8 - 0.9 ] 7 3.0 5.3333
[ 0.9 - 1.0 ] 0 3.0 3.0
X^2= 19.3332

H0: Generated numbers are not different from the uniform distribution
H1: Generated numbers are different from the uniform distribution

Since 19.3332 > 16.91 , H0 is rejected

```

```

PS C:\Users\Martin Noboa\Desktop\Metodos\Activities\Activity04> & "C:/Users/Martin Noboa/AppData/Local/Programs/Python/Python39/python.exe" "c:/Users/Martin Noboa/Desktop/Metodos/Activities/Activity04/activity4.py"
[0.4375, 0.0375, 0.2375, 0.6375, 0.4375, 0.0375, 0.2375, 0.6375, 0.4375, 0.0375]

```

```

PS C:\Users\Martin Noboa\Desktop\Metodos\Activities\Activity04> & "C:/Users/Martin Noboa/AppData/Local/Programs/Python/Python39/python.exe" "c:/Users/Martin Noboa/Desktop/Metodos/Activities/Activity04/runTests.py"
['+', '-', '-', '+', '-', '+', '-', '+', '+', '+', '+', '+', '+', '-']
(+): 8 (-): 5 total: 13
Positive runs: 4
Negative runs: 4
Lambda: 8.3333
Sigma: 1.4103
Z-Score: -0.2363

H0: Appereance of the numbers is random
H1: Appereance of the numbers is not random

Since -0.2363 < 1.96 , H0 is not rejected

```