# It is a Bloch sphere Game . We have used Qiskit Bloch Sphere to decode outcomes in coordinations.

# problem statement: You Quantum Circuit is : \0> + SX gate + RZ(Pi/2) Gate

# Need to find : Decode the output in 3D xyz planer Coordinates.

#Game code : Not for Player . for Game\_interface

from qiskit.visualization import plot\_bloch\_vector

%matplotlib inline

print("You Have Only Three Chances!")

n=0

while n<3 :

x= int(input(" Put the possible x[ -1 to 1 ] coordinate for the qubit = "))

y= int(input(" Put the possible y[ -1 to 1 ] coordinate for the qubit = "))

z= int(input(" Put the possible z[ -1 to 1 ] coordinate for the qubit = "))

plot\_bloch\_vector([x,y,z], title="Your Bloch Sphere")

if x == -1 and y == 0 and z == 0 :

print("\x1b[1;32;43m Congratulations , You Got It Right! \x1b[0;0m")

break

else :

print("\033[1;31;43m Opps! Try Again.\033[0;0m]")

n=n+1

if n==3 :

print("\033[1;33;43m Sorry , Better Luck Next Time \033[0;0m] ")