


CODE TO SET BRIGHTNESS OF LED BULB

```

brightness=0
step=20
print("LED Brightness Control")
print("COMMANDS: '+' to increase, '-' to decrease, 'exit' to quit.")
while True:
    command=input("Enter your command: ").strip()
    if command=='+':
        if brightness<100:
            brightness+=step
            brightness=min(brightness,100)
            print(f"Brightness increased to {brightness}%")
        else:
            print("Brightness is already at maximum")
    elif command=='-':
        if brightness>0:
            brightness-=step
            brightness=max(brightness,0)
            print(f"Brightness decreased to {brightness}%")
        else:
            print("Brightness is already at minimum")
    elif command.lower()=='exit':
        print("Exiting program..")
        break
    else:
        print("Invalid command.Use '+' or '-'")
    print("LED: "+"|"*(brightness//5)+" "*(100-brightness)//5+f"({brightness}%")")
print("Program ended.")

```

 LED Brightness Control
 COMMANDS: '+' to increase, '-' to decrease, 'exit' to quit.
 Enter your command: +
 Brightness increased to 20%
 Enter your command: -
 Brightness decreased to 0%
 Enter your command: exit
 Exiting program..
 Program ended.