

SCT_SD_2

TASK 2:

Build a program that generates a random number and challenges the user to guess it. The program should prompt the user to input their guess and compare it to the generated number.

Source Code: (PYTHON)

```
#number guessing game
import random #Importing random package
random_num=random.randint(1,100) #Generating a random number
attempt=0
print("Welcome to number guessing game!")
print("I've selected a number between 1 and 100. Can you guess it?")
while True:
    try:
        n1=int(input("Enter a number between 1 to 100:"))
        attempt=attempt+1
        if n1<random_num:
            print("Oh-no!too short try again!")
        elif n1>random_num:
            print("Oh-no!Too large try again!")
        else:
            print(f"Congratulations!\nYou have predicted the correct number
{random_num} in {attempt} attempts.")
            break
    except ValueError:
        print("Invalid Input! Enter a number.")
```

Output:

```
● ayushghosh@Ayushs-MacBook-Air SCT_SD_2 % /usr/bin/python3 /Users/ayushghosh/Desktop/SCT_SD/SCT_SD_2/SCT_SD_2.py
Welcome to number guessing game!
I've selected a number between 1 and 100. Can you guess it?
Enter a number between 1 to 100:5
Oh-no!too short try again!
Enter a number between 1 to 100:45
Oh-no!too short try again!
Enter a number between 1 to 100:96
Oh-no!Too large try again!
Enter a number between 1 to 100:76
Oh-no!Too large try again!
Enter a number between 1 to 100:50
Oh-no!too short try again!
Enter a number between 1 to 100:65
Oh-no!too short try again!
Enter a number between 1 to 100:70
Oh-no!too short try again!
Enter a number between 1 to 100:72
Congratulations!
You have predicted the correct number 72 in 8 attempts.
○ ayushghosh@Ayushs-MacBook-Air SCT_SD_2 %
```