To create a program that plays cows and bulls game with the user

```
import random
def random_number():
digits = list(range(10))
  random.shuffle(digits)
  return "".join(map(str, digits[:4]))
def count_cowsandbulls(random_num, guess):
  cows = 0
  bulls = 0
  for i in range(4):
    if guess[i] == random_num[i]:
      cows += 1
    else:
      bulls += 1
  return cows, bulls
def main():
  random_num = random_number()
  attempts = 0
  print("Welcome to the Cows and Bulls Game!")
  print("Try to guess the 4-digit number.")
 while True:
    guess = input("Enter your guess: ")
    if len(guess) != 4 or not guess.isdigit() or len(set(guess)) != 4:
      print("Invalid input. Please enter a 4-digit number with non-repeated digits.")
      continue
```

```
attempts += 1

cows = count_cowsandbulls(secret_number, guess)

bulls = count_cowsandbulls(secret_number, guess)

print("{cows}", cows "{bulls} "bulls)

if cows == 4:

print("Congratulations! You've guessed the number {secret_number} in {attempts} attempts.")

break

if __name__ == "__main__":

main()
```