



Random Numbers

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```
import random
for i in range(3):
    print(random.random())

for i in range(3):
    print(random.randint(10, 20))

team_members = ['Hiren', 'Sanjay', 'Pradip', 'Vijay', 'Parimal']
leader = random.choice(team_members)
print(leader)
```

```
0.9007723077084383
0.07188337323429828
0.7289552940868703
20
13
17
Sanjay
```

```
import random

class Dice:
    def roll(self):
        first = random.randint(1, 6)
        second = random.randint(1, 6)
        return first, second

dice = Dice()
print(dice.roll())
```

```
(5, 4)
```



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```
import random

Sentence_starter = ['About 100 years ago', ' In the 20 BC', 'Once upon a time']
character = [' there lived a king.', ' there was a man named Jack.', ' there lived a farmer.']
time = [' One day', ' One full-moon night']
story_plot = [' he was passing by', ' he was going for a picnic to ']
place = [' the mountains', ' the garden']
second_character = [' he saw a man', ' he saw a young lady']
age = [' who seemed to be in late 20s', ' who seemed very old and feeble']
work = [' searching something.', ' digging a well on roadside.']

print(random.choice(Sentence_starter)+random.choice(character)+
      random.choice(time)+random.choice(story_plot) +
      random.choice(place)+random.choice(second_character)+
      random.choice(age)+random.choice(work))
```

About 100 years ago there lived a king. One day he was going for a picnic to the garden he saw a young lady who seemed very old and feeble searching something.

Once upon a time there was a man named Jack. One day he was passing by the mountains he saw a man who seemed very old and feeble searching something.

Once upon a time there lived a farmer. One full-moon night he was passing by the mountains he saw a man who seemed very old and feeble digging a well on roadside.

In the 20 BC there was a man named Jack. One day he was going for a picnic to the garden he saw a young lady who seemed to be in late 20s digging a well on roadside.



Random Numbers: Guess a number

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```
import random

lower_limit = int(input("Enter lower limit: "))
upper_limit = int(input("Enter upper limit: "))

random_number = random.randint(lower_limit, upper_limit)
print("You will have to choose a number between ", lower_limit, " and ", upper_limit)
chances = 0
while chances < 8:
    chances += 1
    guess = int(input("Enter your guess: "))
    if random_number == guess:
        print("Congratulations, you did it. The number was ", random_number)
        break
    elif guess < random_number:
        print("You guessed a small number.")
    elif guess > random_number:
        print("You guessed a large number.")
    if chances == 7:
        print("\n You've run out of chances")
        print("\n The number was ", random_number)
        print("Better luck next time")
        break
```

Enter lower limit: 10
Enter upper limit: 20
You will have to choose a number between 10 and 20
Enter your guess: 18
You guessed a large number.

Enter your guess: 12
You guessed a small number.

Enter your guess: 15
You guessed a small number.

Enter your guess: 17
Congratulations, you did it. The number was 17



Random Numbers: Password generator

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```
import random
password_size = 10
pass1 = ['a', 'b', 'c', 'd', 'e', 'f', 'g', 'h', 'i', 'j',
         'k', 'l', 'm', 'n', 'o', 'p', 'q', 'r', 's', 't',
         'u', 'v', 'w', 'x', 'y', 'z', 'A', 'B', 'C', 'D',
         'E', 'F', 'G', 'H', 'I', 'J', 'K', 'L', 'M', 'N',
         'O', 'P', 'Q', 'R', 'S', 'T', 'U', 'V', 'W', 'X',
         'Y', 'Z', '1', '2', '3', '4', '5', '6', '7', '8',
         '9', '0', '!', '@', '#', '$', '%', '^', '&',
         '*', '(', ')']

password = ""
for x in range(password_size):
    password = password + random.choice(pass1)
print (password)
```

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