

In []: #1. Write a program that asks the user to enter a letter. Then it generates a random number between 1 and 10 and prints the letter repeated that many times.

```
In [1]: Letter = input("Enter a letter: ")
import random
x = random.randint(1,10)
print(x)
print(Letter*x)
```

```
Enter a letter: B
5
BBBBB
```

In []: #2. In the game Yahtzee, players roll five dice. A Yahtzee is when all five dice are the same. Write a program that simulates 10,000 rolls of five dice and prints the percentage of rolls that are Yahtzees.

```
In [2]: from random import randint

yahtzee = 0

for i in range(10000):
    a = random.randint(1,6)
    b = random.randint(1,6)
    c = random.randint(1,6)
    d = random.randint(1,6)
    e = random.randint(1,6)

    if (a==b==c==d==e):
        yahtzee +=1
    else:
        pass
percent = (yahtzee/10000)*100

print ('Percentage of the rolls come out to be Yahtzees:', percent)
```

```
Percentage of the rolls come out to be Yahtzees: 0.12
```

In []: #3. Write a program that asks the user to enter a sentence, removes all the spaces, and prints the result in uppercase.

```
In [3]: sent = input("Enter a sentence: ")
x = sent.replace(" ", "")
str.upper(x)
```

```
Enter a sentence: Welcome to AIML class
'WELCOMETOAIMLCLASS'
```

Out[3]:

In []: #4. Write a program that asks the user to enter a string. If the string is at least 5 characters long, print the string with a star at the end. If the string is less than 5 characters long, print the string with exclamation marks at the end.

```
In [5]: str = input("Enter a string: ")
l = len(str)
s = 5-l
str1 = '!'
if l >=5:
    new = str[:5] + ('***')
else:
    new = str[:] + (str1*s)
print(new)
```

```
Enter a string: AI
AI!!!
```

In []: #5. Write a program that asks the user to enter a string that consists of multiple words. Print the string with the first letter of each word capitalized.

```
In [6]: str2 = input("Enter a string of multiple words: ")
str3 = str2.split(' ')
i=0
for i in str3:
    print(i[0], end='')
```

Enter a string of multiple words: Welcome to AIML Class
WtAC