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In [15]: #program 1

import random

letter = input("Enter a letter: ")

# Generate a random number between 1 and 10
random_number = random.randint(1, 10)

# Print the letter that many times
for _ in range(random_number):
    print(letter, end="")

print()
```

Enter a letter: V  
VVV

```
In [16]: #program 2

import random

NUM_ROLLS = 10000
NUM_DICE = 5

yahtzee_count = 0

for _ in range(NUM_ROLLS):
    dice = [random.randint(1, 6) for _ in range(NUM_DICE)]

    if dice.count(dice[0]) == NUM_DICE:
        yahtzee_count += 1

percentage = (yahtzee_count / NUM_ROLLS) * 100

print("Number of rolls:", NUM_ROLLS)
print("Number of Yahtzees:", yahtzee_count)
print("Percentage of Yahtzees: {:.2f}%".format(percentage))
```

Number of rolls: 10000  
Number of Yahtzees: 5  
Percentage of Yahtzees: 0.05%

```
In [18]: #program 3

sentence = input("Enter a sentence: ")

sentence_without_spaces = sentence.replace(" ", "")
result = sentence_without_spaces.upper()
print("Result:", result)
```

Enter a sentence: india is secular, republic, sovereign  
Result: INDIAISSECULAR,REPUBLIC,SOVEREIGN

```
In [25]: #program 4

string = input("Enter a string: ")

if len(string) >= 5:
    new_string = string[:3] + '***'
else:
    new_string = string + '!' * (5 - len(string))

print("New string:", new_string)
```

Enter a string: Parliamentary  
New string: Par\*\*\*

```
In [22]: #program 5

string=input("enter a string:")
words=string.split()
first_letters=" ".join(word[0] for word in words)
print("First letters:", first_letters)
```

enter a string:Every rejection is a redirection  
First letters: E r i a r

In [ ]:

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