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In [9]: #defining a function to find if the number exists in the given range
def check_num(i, j):
    if j in range(i):
        return(print("\n the number exists in the given range"))
    else:
        return(print("\n the number doesnot exists in the given range"))
#taking user input
i = int(input("Enter the range: "))
j = int(input("enter the number to search: "))
check_num(i,j)
```

Enter the range: 10  
enter the number to search: 1

the number exists in the given range

```
In [13]: i = int(input("enter the number of cards in your hand: "))
j = i//2
print("Under the given rule your hand would reduce to: ",j)
```

enter the number of cards in your hand: 11  
Under the given rule your hand would reduce to: 5

```
In [24]: #importing Random module
import random
#taking user input
i = int(input("Enter a positive number: "))

#checking if user input is positive and printing the output
if(i>0):
    for i in range(random.randrange(i,i+10)):
        print('A',end=" ")
else:
    print("Entered number is not positive")
```

Enter a positive number: 4  
A A A A A A A A A A

```
In [26]: start = int(input("enter starting hour in 24 hr format: "))
end = int(input("Enter ending hour in 24 hr format: "))
if end >= start:
    fee = (end - start)*5.50
    print("Your total bill is: ", fee)
```

enter starting hour in 24 hr format: 10  
Enter ending hour in 24 hr format: 20  
Your total bill is: 55.0

```
In [37]: from random import randint
c=0
for i in range(10000):
    d1 = randint(1, 6)
    d2 = randint(1, 6)
    if(d1 == d2):
        c += 1
print("percentage of rolling doubles in 10000 rolls is: ", 100*c/10000)
```

percentage of rolling doubles in 10000 rolls is: 16.92