In [1]:
```
#Second assignment
# 1. Function to check whether a number falls in a given range.
def in_range(m,M,num):
    if(m<=num<=M):
        return "In range"
    return "Not in range"
m = int(input("Enter minimum value of the range : "))
M = int(input("Enter the maximum value of the range : "))
num = int(input("Enter the number : "))
print(in_range(m,M,num))
```

```
Enter minimum value of the range : 2
Enter the maximum value of the range : 10
Enter the number : 5
In range
```

In [2]:
```
# 2. Reduce the number
n = int(input("Enter the number : "))
print(n//2)
```

```
Enter the number : 15
7
```

In [3]:
```
# 3.printing "A" random number of times
from random import randint as r
n = int(input("Enter a number : "))
res = r(n,n+10)
print("A"*res)
```

```
Enter a number : 6
AAAAAAA
```

In [8]:
```
#4.Billing program
start = int(input("Enter starting program : "))
end = int(input("Enter ending hour : "))
print("Users total bill",end =" ")
if (end - start) > 0:
    print((end-start)*5.5,"$")
else:
    print((24 - (start-end))*5.5,"$")
```

```
Enter starting program : 22
Enter ending hour : 2
Users total bill 22.0 $
```

In [9]:
```
# 5.Percentage of rolls that are doubles
from random import randint as r
count = 0
for i in range(10000):
    res1 = r(1,6)
    res2 = r(1,6)
    if(res1==res2):
        count+=1
print("Probability of doubles = ",count/10000)
```

```
Probability of doubles =  0.165
```