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1. The following code is to find weather number falls in given range number is

```
In [52]:
         def fndnum(n,r1,r2):
              for i in range(r1,r2):
                  if i==n:
                      print(n," is in a given range")
              else:
                      print(n," is not in a given range")
          fndnum(1,1,10)
         1 is in a given range
         2.Cards and reduce
In [53]: cards=eval(input("Enter number of cards "))
          print('Cards reduced in your hand are',cards//2)
         Enter number of cards 21
         Cards reduced in your hand are 10
         3.ramndom number and print A
In [54]: from random import randint
          num=eval(input("Enter positive number"))
          if num<0:</pre>
              print("Enter positive number only")
          else:
              print("Random number is ",randint(num,num+10))
              print('A'*(num+10))
         Enter positive number4
         Random number is 6
         AAAAAAAAAAAA
         4.Billing system
         shours=eval(input("Enter starting hours "))
In [41]:
          ehours=eval(input("Enter end hours "))
          if shours>ehours:
              print("End hours must be greater than starting hours")
          elif shours<1 or ehours>23:
              print("starting hours and End hours between 1 nad 23 only")
          else:
              print("Your billing for",(ehours-shours),"is $",(ehours-shours)*5.5)
         Enter starting hours2
         Enter end hours12
         Your billing for 10 is $ 55.0
         5.Dice simulator
In [51]:
         cnt=0
          from random import randint
          for i in range(1,10000):
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die1=randint(1,6)
  die2=randint(1,6)
  score=die1+die2
  if die1==2 and die2==2:
        cnt+=1

print("Probability of two dies having double is ",100*cnt/10000)
```

Probability of two dies having double is 2.98