```
import math
# 1A. Write a converter that translates from lightyears to parsec.
lykm = 9.4607304725808E12 # km
pskm = 3.085677581E13 \# km
ly = 1400
ps = ly*lykm / pskm
print("The amount of parsecs in : %a parsecs." % ps)
# 1B. The Starship Enterprise D travels at warp 9 (which is 1516.38 x ligh
      speed), how long would their journey to Kepler 452b be (in days)?
warp9 = (1y/1516.38)
days = (warp9*365.25)
print("It would take: %a days at warp 9 speed." % days)
# 1C. How long would it take for a non-fictional spacecraft like Voyager 1
      flies at a speed of 17.043 km/s (kilometers per second) to get there
      (express this in years)?
voyager1 = 17.043 \# km/s
time = ly*lykm/voyager1
sec = (60*60*24*365)
years = time/sec
print("It would take Voyager 1: %a years to get to Kepler 452b." % years)
# 2. Write a function that returns the Bell number and then show it
    for values from 1 to 10.
import math
def factorial(n):
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    iact = iact * 1
  return fact
def binomial(n,k):
 bi = (factorial(n) / (factorial(k)*factorial(n-k)))
  return bi
def main():
  for n in range(5):
    for k in range(0,n+1):
      print(n, k, binomial(n,k))
if __name__ == '__main ':
 main()
```

The amount of parsecs in: 429.2419513681239 parsecs. It would take: 337.21758398290666 days at warp 9 speed. It would take Voyager 1: 24643367.56556945 years to get to Kepler 452b. 0 0 1.0 1 0 1.0 1 1 1.0 2 0 1.0 2 1 2.0 2 2 1.0 3 0 1.0 3 1 3.0 3 2 3.0 3 3 1.0 4 0 1.0 4 1 4.0 4 2 6.0 4 3 4.0 4 4 1.0

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