```
1. Binomial coefficient
    def fact(n):
      f = 1
      for i in range(1,n+1):
        f = f*i
      return f
    n = int(input("enter the number n"))
    r = int(input("enter the number r"))
    a = n-r
    res = fact(n)//(fact(r)*fact(a))
    print(res)
2. Word wrap
    def print_solution(solution, n):
      if solution[n] == 1:
         print(f"Line 1: words {solution[n]} to {n}")
      else:
         print_solution(solution, solution [n] - 1)
         print(f"Line {solution [n]}: words {solution[n]} to {n}")
    def word_wrap(words, max_width):
      n = len(words)
      inf = float('inf')
      extras =[[0] * n for_ in range(n)]
      cost = [inf]*n
      solution = [0] * n
      for i in range(n):
        extras[i][i] = max_width words[i]
        for j in range(i + 1, n):
           extras[i][j] = extras[i][j - 1] - words[j] - 1
      for i in range(n-1, -1, -1):
        if extras[i][n-1] >= 0:
           cost[i] = 0
           solution[i] = n
        else:
           for j in range(n-1, i, -1):
             if extras[i][j - 1]>= 0 and cost[j] + (extras[i][j-1] ** 2) < cost[i]:
                cost[i] = cost[j]+ extras[i][j-1] ** 2
                solution[i] = j
      print_solution(solution, 0)
```

if_name__ == "_main_":
 words [3, 2,4,5]
 max_width = 6

word_wrap(words,max_width)