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```
In [1]:
         def add(a,b):
              c=a+b
              return(c)
          add(12,2)
         14
Out[1]:
In [12]:
         # pattern using function
          def star(a):
              for i in range(0,a):
                  for j in range(0,i+1):
                      print("* ",end=" ")
                  print("\r")
          star(3)
In [13]: # Multiplication of three values
          def mult(a,b,c):
              d=a*b*c
              return(d)
         mult(2,3,4)
         24
Out[13]:
In [20]:
         # power raised to 3
          def power(a):
              b=a*a*a
              return(b)
          power(3)
         27
Out[20]:
In [21]:
         # n raised to 4
          def power(a):
              b=a*a*a*a
              return(b)
          power(3)
         81
Out[21]:
In [26]:
         def power(a):
              if a!=a:
                  b=a*a
                  return(b)
          power(3)
```

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```
In [3]: # variance of 5 values
          import statistics as s
          a=[]
          for i in range(10,15):
              a.append(i)
          var=(s.variance(a))
          print("The variance of above the numbers are :",var)
         The variance of above the numbers are : 2.5
 In [5]: # variance of given numbers
          import statistics as s
          a=[1,2455,65,45,12,5]
          print(s.variance(a))
         984292.7
 In [8]: # factorial
          def fact(n):
              if n==0 | n==1:
                  return 1
              else:
                  return(n* fact(n-1))
              print(fact(n))
          fact(3)
Out[8]:
In [19]:
         # addition of even number
          def even_add(number):
              a=0
              for i in number:
                  if i % 2 ==0:
                     a=a+i
              return a
          number=[1,2,3,4,5,6,7,8,9,1,2,3,4,5,6]
          even_add(number)
Out[19]:
In [20]: #print name
          def name():
              for i in range(1,36):
                  print(i, "Sumit")
          name()
```

```
1 Sumit
         2 Sumit
         3 Sumit
         4 Sumit
         5 Sumit
         6 Sumit
         7 Sumit
         8 Sumit
         9 Sumit
         10 Sumit
         11 Sumit
         12 Sumit
         13 Sumit
         14 Sumit
         15 Sumit
         16 Sumit
         17 Sumit
         18 Sumit
         19 Sumit
         20 Sumit
         21 Sumit
         22 Sumit
         23 Sumit
         24 Sumit
         25 Sumit
         26 Sumit
         27 Sumit
         28 Sumit
         29 Sumit
         30 Sumit
         31 Sumit
         32 Sumit
         33 Sumit
         34 Sumit
         35 Sumit
In [21]: #list of specific range
          def create_list(a,b):
              i=1
              c=[]
              for i in range(a,b):
                  c.append(i)
                  i+i+1
              print(c)
          create_list(20,56)
         [20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40,
         41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55]
In [ ]:
```