1. Program to find the factorial of a number (Please do not use

built in factorial method)

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| def fact(n):  if n == 1 :  return 1  else:  return n\*fact(n-1)  n=int(input("Enter Limit : "))  f=fact(n)  print(f) |

2. Generate Fibonacci series of N terms

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| n=int(input("Enter Limit : "))  f=0  s=1  print (f)  print(s)  c=0  while(c<n-2):  t=f+s  f=s  s=t  c=c+1  print(t) |

3. Find the sum of all items in a list of numbers

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| s=input("Enter the list of numbers : ")  list1=list(s.split(" "))  print(list1)  res=0  i=0  for i in list1:  res=res+int(i)  print(res) |

4. Count the no. of vowels in an input text.

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| s=input("Enter a String : ")  list1=list(s)  count=0  for i in list1:  if i=='a' or i=='e' or i=='i'or i=='u' or i=='o' :  count+=1  elif i=='A' or i=='E' or i=='I'or i=='U' or i=='O' :  count+=1  print(count) |

5. Generate a list of four digit numbers in a given range with all

their digits even and the number is a perfect square.

Hint : In range (1000,10000)

4624 6084 6400 8464

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| import math  for i in range(1000,10000):  val=True  n=int(i)  while(n>0):  a=int(n%10)  n=n/10  if a%2!=0:  val=False  break  if(val):  root=math.sqrt(i)  if int(root + 0.5) \*\* 2 == i:  print(i) |

6. Display the given pyramid with step number accepted from

user.

Eg: N=4

1

2 4

3 6 9

4 8 12 16

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| n=int(input("Enter Limit : "))  for i in range(1,n+1):  for j in range(1,i+1):  print(i\*j,end=' ')  print() |

7. Accept a name and print in reverse order.

Eg: Input – Sonia Abraham

Output – Abraham Sonia

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| s=input("Enter Name : ")  name\_list=s.split(" ")  name\_list.reverse()  for name in name\_list:  print (name,end=' ') |

8. Concatenate all elements in a list entered and return a string.

Eg : l = [1,2,3,4,5]

Result – 12345

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| list1=[1,2,3,4,5]  for i in list1:  print(i,end='') |