In [1]:	#Q1)Write a Python Program to Find the Factorial of a Number?
In [2]:	<pre>def factorial(number): try: if(number==1):</pre>
	<pre>return 1 else: fact = (number) * (factorial (number-1)) return fact</pre>
	print(fact)
	<pre>except Exception as e: print(e)</pre>
In [4]:	<pre>number = int(input("Enter a number to find the factorial\n"))</pre>
	factorial (number) Enter a number to find the factorial 5
Out[4]: In [5]:	
	factorial (number) Enter a number to find the factorial 10
Out[5]: In []:	3628800
In [6]:	#Q2)Write a Python Program to Display the multiplication Table?
In [7]:	<pre>def multiplication_table(number): try: for i in range(1,11): print(f' {number}*{i} = {number*i}')</pre>
In [10]:	<pre>except Exception as e: print(e) #Example1:2</pre>
	<pre>number = int(input("Enter a number to find multiplication of a number\n")) multiplication_table(number) Enter a number to find multiplication of a number</pre>
	$ 2 \\ 2*1 = 2 \\ 2*2 = 4 \\ 2*3 = 6 \\ 2*4 = 8 $
	2*5 = 10 $2*6 = 12$ $2*7 = 14$ $2*8 = 16$
In [11]:	
	<pre>number = int(input("Enter a number to find multiplication of a number\n")) multiplication_table(number) Enter a number to find multiplication of a number</pre>
	12 12*1 = 12 12*2 = 24 12*3 = 36 12*4 = 48
	12*5 = 60 12*6 = 72 12*7 = 84 12*8 = 96
In []:	12*9 = 108 12*10 = 120
In [12]:	#Q3)Write a Python Program to Print the Fibonacci sequence?
In [22]:	<pre>def fibbonacci_sequence(number): try: for i in range(number): if(i==0):</pre>
	<pre>print(f'The fibbonacci_sequence of a given number {number} is') print(i) previous = i</pre>
	<pre>elif(i==1): print(i) present = i</pre>
	<pre>else: future = previous+present print(future)</pre>
	<pre>previous = present present = future except Exception as e:</pre>
	<pre>print(e)</pre>
In [23]:	<pre>#Example1: 5 number = int(input("Enter the number to find out fibbanoci series\n"))</pre>
	fibbonacci_sequence(number) Enter the number to find out fibbanoci series 5
	The fibbonacci_sequence of a given number 5 is 1 1
In [24]:	<pre>#Example1: 8 number = int(input("Enter the number to find out fibbanoci series\n"))</pre>
	fibbonacci_sequence(number) Enter the number to find out fibbanoci series 8
	The fibbonacci_sequence of a given number 8 is 1 1
	2 3 5 8 13
In []:	
In [25]:	<pre>#Q4)Write a Python Program to Check Armstrong Number? def Amstrong_Number(Number): try:</pre>
	<pre>total = 0 list_1 = list(str(Number)) #Dividing number into list example 153 = ['1','5','3'] for i in list_1:</pre>
	<pre>if(total==Number): print("It is an Amstrong Number")</pre>
	<pre>else: print("It is not a Amstrong Number") except Exception as e:</pre>
	print(e)
In [48]:	<pre>#Example1:if it is not an amstrong number: Number = int(input("Enter a number to check amstrong number or not\n")) Amstrong_Number(Number)</pre>
	Enter a number to check amstrong number or not 143 It is not a Amstrong Number
In [49]:	<pre>Number = int(input("Enter a number to check amstrong number or not\n")) Amstrong_Number(Number)</pre>
	Enter a number to check amstrong number or not 153 It is an Amstrong Number
In []: In [50]:	
	#Q5)Write a Python Program to Find Armstrong Number in an Interval?
In [51]:	<pre>def Amstrong_Interval(num1, num2): try: for number in range(num1, num2):</pre>
In [51]:	<pre>def Amstrong_Interval(num1, num2): try:</pre>
In [51]:	<pre>def Amstrong_Interval(num1, num2): try: for number in range(num1, num2): total = 0 list_1 = list(str(number)) for i in list_1: total = total + int(i)*int(i) if(total==number): print(f' {number} is an amstrong number')</pre>
In [51]: In [54]:	<pre>def Amstrong_Interval(num1,num2): try: for number in range(num1,num2): total = 0 list_1 = list(str(number)) for i in list_1: total = total + int(i)*int(i) if(total==number): print(f' {number} is an amstrong number') except Exception as e: print(e)</pre> #Example1: [0-1000]
	<pre>def Amstrong_Interval(num1, num2): try: for number in range(num1, num2): total = 0 list_1 = list(str(number)) for i in list_1: total = total + int(i)*int(i)</pre>
	<pre>def Amstrong_Interval(num1, num2): try: for number in range(num1, num2): total = 0 list_1 = list(str(number)) for i in list_1: total = total + int(i)*int(i)</pre>
	<pre>def Amstrong_Interval(num1,num2): try: for number in range(num1,num2): total = 0</pre>
In [54]:	<pre>def Amstrong_Interval(num1,num2): try: for number in range(num1,num2): total = 0</pre>
In [54]:	<pre>def Amstrong Interval (num1, num2): try: for number in range(num1, num2):</pre>
In [54]:	<pre>def Amstrong_Interval(num1,num2): try: for number in range(num1,num2): total = 0</pre>
In [54]:	<pre>def Amstrong_Interval(numl,num2): try: for number in range(numl,num2): total = 0</pre>
<pre>In [54]: In [56]: In [57]:</pre>	<pre>def Amstrong Interval(numl,num2): try: for number in range(numl,num2): total = 0</pre>
<pre>In [54]: In [56]: In [57]: In [58]:</pre>	<pre>def Amstrong_Interval(numl,num2): try: for number in range(numl,num2):</pre>
<pre>In [54]: In [56]: In [57]:</pre>	def Amstrong_Interval(numl,num2): try: for number in range(numl,num2):
<pre>In [54]: In [56]: In [57]: In [58]:</pre>	def Amstrong_Interval(numl,num2): try: for number in range(numl,num2): total = 0 list_l = list(akt(number)) for in list_l: total = total = int(i)*int(i)*int(i) if(total==number): print(i" (number) is an amatrong number') except Exception as e: print(e) #Exception (G-1900) munl,num2 = mag(int, input("Encer an interval to find out amstrong numbers").split(j) Amstrong_Interval(numl,num2) #Enter am interval to find out amstrong numbers (1900) (
<pre>In [54]: In [56]: In [57]: In [58]:</pre>	<pre>def Ametrong_Interval(numl,num2): try: for number in sange(numl,num2):</pre>
<pre>In [54]: In [56]: In [57]: In [58]:</pre>	def Amatrong_Interval(numl,num2): try: for number in range(numl,num2): total = 0