In []:	<pre>#Running instructions '''shift+enter>Run cell Ctrl+s>Save</pre>
	Ctrl+M+B>New cell Ctrl+M+D>Delete cell Shift+/>Comment'''
In [1]:	<pre>#Correcting an error n=int(input("Enter Number")) if n%2==0: print("Its is even number")</pre>
	else: print('Its odd number') File " <ipython-input-1-3088f3913a7a>", line 2</ipython-input-1-3088f3913a7a>
	<pre>n=int(input("Enter Number"))</pre>
In [2]:	<pre>n=int(input("Enter Number")) if n%2==0: print("Its is even number") else:</pre>
	print('Its odd number') Enter Number3 Its odd number
In [4]:	<pre>#Exercise 2: 3.GCD OF TWO NUMBERS def gcd(a,b): if a==0: return b</pre>
	<pre>return gcd(b%a,a) a=int(input('Enter first number:')) b=int(input('Enter second number:')) res1=gcd(a,b)</pre>
	<pre>print(res1) Enter first number:7 Enter second number:8 1</pre>
In [9]:	# 4.add.py TAKES NUMBERS FROM COMMMAND PROMPT AND EXECUTE import sys x=int(sys.argv[1])
	y=int(sys.argv[2]) sum=x+y
	<pre>ValueError</pre>
	> 3 x=int(sys.argv[1]) 4 y=int(sys.argv[2]) 5 sum=x+y
In [11]:	<pre>ValueError: invalid literal for int() with base 10: '-f' # EXERCISE 3- 5.GIVE NUMBER IS EVEN OR NOT n=int(input()) if()(20, 0)</pre>
	<pre>if(n%2==0): print("It is a even number") else: print("It is a odd number")</pre>
In [12]:	44 It is a even number #6.USING FOR LOOP SHOW OVER A SEQUENCE
	<pre>n=int(input("Enter the number")) for i in range(n): print(i, end=" ") Enter the number7</pre>
In [15]:	# 7.PRINT FIBONACCI SERICES USING WHILE LOOP n=int(input("Enter number of terms:"))
	<pre>count=0 n1=0 n2=1 while count<n:< pre=""></n:<></pre>
	<pre>print(n1) temp=n1+n2 n1=n2 n2=temp</pre>
	count+=1 Enter number of terms:5
	1 1 2 3
In [17]:	<pre># 8.print all prime numbers using break n,m=map(int,input("Enter the Range ").split()) for i in range(n,m): if i>1:</pre>
	<pre>for j in range(2,i): if(i%j)==0: break else:</pre>
	print(i,end=" ") Enter the Range 0 50
In [19]:	2 3 5 7 11 13 17 19 23 29 31 37 41 43 47 # EXERCISE 4 : 9 . Mean, Median, Mode of a given set 1=[2,33,4,5,7,44,2]
	<pre>mean=sum(1)/len(1) median=1[len(1)//2] mode=max(set(1), key=1.count) print(mean)</pre>
	<pre>print(median) print(mode) 13.857142857142858 5</pre>
In [20]:	# 10. Convert list and tuple into array import numpy as np
	li=[2,3,5,7,99,4,5] tup=(4,88,1,6,90,3,10) arr=np.array(li) arr1=np.array(tup)
	print(arr) print(arr1) [2 3 5 7 99 4 5] [4 88 1 6 90 3 10]
In [23]:	<pre># 11. Find common values between two arrays a=[int(x) for x in input().split()] b=[int(x) for x in input().split()]</pre>
	<pre>common=[] for i in a: if i in b: common.append(i)</pre>
	<pre>print(set(common)) 1 2 3 4 3 2</pre>
In [24]:	<pre># EXERXCISE 5. 12 : Count number of characters in a string and store them in a dictionary data structure dic={} s=input()</pre>
	<pre>sl=list(s) for i in sl: if i not in dic: dic[i]=1</pre>
	<pre>else: dic[i]=dic[i]+1 print(dic)</pre>
In [25]:	<pre>karthik {'k': 2, 'a': 1, 'r': 1, 't': 1, 'h': 1} # 13.Combine list into dictionary a=[(x) for x in input("Enter first list:").split()]</pre>
	<pre>b=[int(x) for x in input("Enter the second list:").split()] dic={} for i in a: for j in b:</pre>
	<pre>dic[i]=j b.remove(j) break print(dic)</pre>
	Enter first list:a b c d Enter the second list:1 2 3 4 {'a': 1, 'b': 2, 'c': 3, 'd': 4}
In [27]:	<pre># Exercise 6: 14.String starts with specified characters s=input("Enter the string: ") r=input("Enter the character:") if(s[0]==x);</pre>
	<pre>if(s[0]==r): print("YES! It is starts with a specificed character") else: print("No!! It didn't started")</pre>
	Enter the string: karthik Enter the character:k YES! It is starts with a specificed character
In [29]:	<pre># 15.Check whether a string is palindrome or not s=input("Enter the String: ") s=s.lower() rev=s[::-1]</pre>
	<pre>if(s==rev): print("It is palindrome") else: print("it is not palindrome")</pre>
In [32]:	Enter the Stringmom It is palindrome # Exercise 7 : 16 . Split and join a string
	<pre>s=input("Enter the string: ") l=s.split(" ") res=".".join(1) print(res)</pre>
In [33]:	Enter the string: hi this is karthik hi.this.is.karthik # 17. Sort the words in Alphabetic orders
	<pre>a=input("Enter the string: ") l=a.split(" ") s=sorted(1) print(s)</pre>
In [2]:	Enter the string: hi where is vishnu ['hi', 'is', 'vishnu', 'where'] #Exercise 8 : 18. Print each line of a file in reverse order
[-].	<pre>f=open("file-46.txt","r") s="" for i in f: s=s+i[::-1]</pre>
	<pre>print("Reverse of a string : ",s) f.close() Reverse of a string : .kihtraK si eman yM</pre>
In [4]:	tnemtraped ecneicS ataD morf ma I .5202 no egelloc TEIJV RNV morf tuo ssap lliw I # 19 . Compute Number of lines, words and characters in a file f=open("file-46.txt","r")
	<pre>for i in f: s=s+i print("Number of characters: ",len(s)-s.count(''))</pre>
	<pre>print("Number of words: ",s.count('')) print("Number of lines: ",s.count('\n')) Number of characters: -1 Number of words: 21</pre>
	Number of lines: 1 Number of characters: -1 Number of words: 56 Number of lines: 2
	Number of characters: -1 Number of words: 104 Number of lines: 2
In [8]:	<pre># 20 . Count the frequency of characters in a file f=open("file-46.txt","r") s="" for i in f:</pre>
	<pre>s=s+i d={} for i in s: if i in d: d[i]+=1</pre>
	<pre>else: d[i]=1 print(d)</pre>
In [38]:	{'M': 1, 'y': 1, ' ': 18, 'n': 4, 'a': 7, 'm': 5, 'e': 7, 'i': 4, 's': 3, 'K': 1, 'r': 4, 't': 5, 'h': 1, 'k': 1, '.': 3, '\n': 2, 'I': 3, 'f': 2, 'o': 5, 'D': 1, 'S': 1, 'c': 3, 'd': 1, 'p': 2, 'w': 1, 'l': 4, 'u': 1, 'V': 2, 'N': 1, 'R': 1, 'J': 1, 'E': 1, 'T': 1, 'g': 1, '2': 2, '0': 1, '5': 1} #Exercise 9: 21 Calculator using functions def add(x y):
	<pre>def add(x,y): print(x+y) def sub(x,y): print(x-y)</pre>
	<pre>def mul(x,y): print(x*y) def div(x,y): print(x/y) print("1.Addition\n 2.Subtraction\n 3.Multiplication\n 4.Division\n")</pre>
	<pre>n=int(input()) x=int(input("Enter the first value: ")) y=int(input("Enter the second value: ")) if n==1:</pre>
	add(x,y) elif n==2: sub(x,y) elif n==3:
	<pre>mul(x,y) elif n==4: div(x,y) else: print("No Option")</pre>
	1.Addition 2.Subtraction
	3.Multiplication 4.Division 1 Enter the first value: 3
Tn [40]·	Enter the first value: 3 Enter the second value: 4 7 # 22.Factorial using recursion
111 [40].	<pre>def fact(n): if(n==0): return 1 elif(n==1):</pre>
	<pre>return 1 else: return n*fact(n-1) n=int(input("Enter the value: "))</pre>
	result=fact(n) print(result) Enter the value: 5 120
In [44]:	#23.Find duplicates in the list using functions def dup(1):
	<pre>a=set(1) for i in a: if(1.count(i)>1): res.append(i) return res</pre>
	<pre>return res b=[int(x) for x in input().split()] res=[] print(dup(b))</pre>
In [49]:	<pre># 24. Find unique elements in the list def uni(lis): li=set(lis) for i in li:</pre>
	<pre>for i in li: if(lis.count(i)==1): res_li.append(i) return res_li li=[int(x) for x in input().split()]</pre>
	<pre>res_li=[] result=uni(li) print(result)</pre>
In [53]:	1 2 3 4 2 3 [1, 4] # 25.Cumulative product of a list of numbers def cum(lis):
	<pre>def cum(lis): mul=1 for i in lis: mul=i*mul</pre>
	<pre>return mul b=[int(x) for x in input().split()] result=cum(b) print(result)</pre>
In [54]·	10 10 # 26.print reverese order of a list
51-	<pre>def rev(lis): org=lis for i in range(len(org)): rev_lis.append(lis.pop())</pre>
	<pre>return rev_lis b=[int(x) for x in input().split()] rev_lis=[] result=rev(b) print(result)</pre>
T	4 6 7 8 2 1 [1, 2, 8, 7, 6, 4]
ın [56]:	<pre># 27.Compute gcd, lcm of 2 numbers def gcd(a,b): if a==0: return b return gcd(b%a,a)</pre>
	<pre>return gcd(b%a,a) def lcm(res1): return (a//res1)*b a=int(input("Enter first number: ")) b=int(input("Enter second number: "))</pre>
	res1=gcd(a,b) res2=lcm(res1) print(res2,res1) Enter first number: 4
In []:	Enter first number: 4 Enter second number: 3 12 1
r 1.	