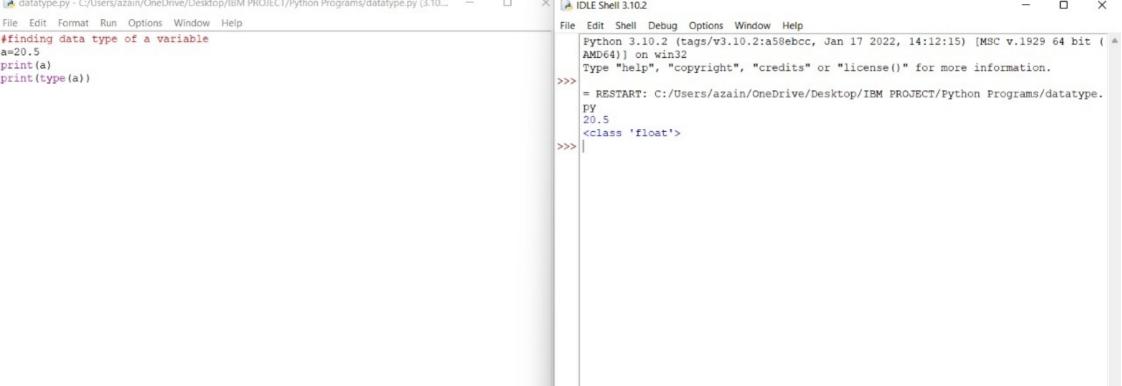


File Edit Format Run Options Window Help		File	Edit Shell Debug Options Window Help
<pre>#while i=0 while i<=10: print(i)</pre>	^	>>>	Python 3.10.2 (tags/v3.10.2:a58ebcc, Jan 17 2022, 14:12:15) [MSC v.1929 64 bit (AMD64)] on win32 Type "help", "copyright", "credits" or "license()" for more information.
		>>>	= RESTART: C:/Users/azain/OneDrive/Desktop/IBM PROJECT/Python Programs/whileloop .py 0 1 2 3 4 5 6 7 8 9 10

File Edit Format Run Options Window Help	File Edit Shell Debug Options Window Help
<pre>#if else n= int(input("enter a num:")) if n%2==0: print("even") else: print("odd")</pre>	Python 3.10.2 (tags/v3.10.2:a58ebcc, Jan 17 2022, 14:12:15) [MSC v.1929 64 bit (AMD64)] on win32 Type "help", "copyright", "credits" or "license()" for more information. = RESTART: C:/Users/azain/OneDrive/Desktop/IBM PROJECT/Python Programs/ifelseloop.py enter a num:3 odd >>>

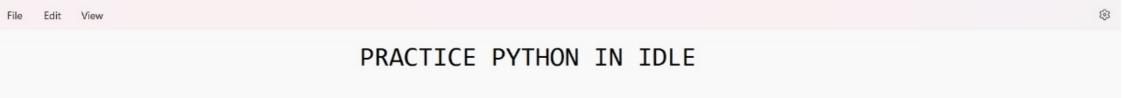
			כ	×
22, 14:12:15) [Project/Python	nformatio	on.		

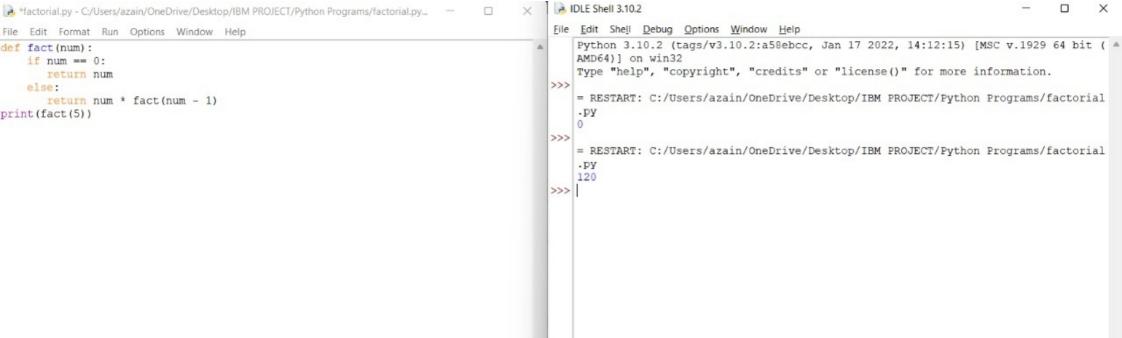


File Edit Format Run Options Window Help	File	Edit Shell Debug Options Window Help
<pre>a=2+7j print(a) print(type(a))</pre>		Python 3.10.2 (tags/v3.10.2:a58ebcc, Jan 17 2022, 14:12:15) [MSC v.1929 64 bit (AMD64)] on win32 Type "help", "copyright", "credits" or "license()" for more information.
	>>>	= RESTART: C:/Users/azain/OneDrive/Desktop/IBM PROJECT/Python Programs/complex.p
<pre>print(b) print(type(b))</pre>		Y (2+7j)
		<class 'complex'=""> True</class>
	>>>	<class 'bool'=""></class>

```
#multiple variable
                                                                                      Python 3.10.2 (tags/v3.10.2:a58ebcc, Jan 17 2022, 14:12:15) [MSC v.1929 64 bit (
a,b,c=10,3,20
                                                                                      AMD64)] on win32
print(a)
                                                                                      Type "help", "copyright", "credits" or "license()" for more information.
print(b)
                                                                                  >>>
print(c)
                                                                                      = RESTART: C:/Users/azain/OneDrive/Desktop/IBM PROJECT/Python Programs/multiplev
                                                                                      ariables.py
del(b)
print(b)
                                                                                      Traceback (most recent call last):
                                                                                        File "C:/Users/azain/OneDrive/Desktop/IBM PROJECT/Python Programs/multiplevari
                                                                                      ables.py", line 8, in <module>
                                                                                          print(b)
                                                                                      NameError: name 'b' is not defined
                                                                                  >>>
```







```
▶ IDLE Shell 3.10.2
fibonacci.py - C:/Users/azain/OneDrive/Desktop/IBM PROJECT/Python Programs/fibonacci.p., —
                                                                                        File Edit Shell Debug Options Window Help
File Edit Format Run Options Window Help
                                                                                           Python 3.10.2 (tags/v3.10.2:a58ebcc, Jan 17 2022, 14:12:15) [MSC v.1929 64 bit ( ...
a = int(input('enter the first element'))
                                                                                           AMD64)] on win32
b = int(input('enter the second element'))
                                                                                           Type "help", "copyright", "credits" or "license()" for more information.
n = int(input('enter the number of elements '))
                                                                                       >>>
print(a,b, end=" ")
                                                                                           = RESTART: C:/Users/azain/OneDrive/Desktop/IBM PROJECT/Python Programs/fibonacci
                                                                                            .py
while n-2:
                                                                                           enter the first element1
       c = a + b
                                                                                           enter the second element1
       a = b
                                                                                           enter the number of elements 5
       b = c
                                                                                            1 1 2 3 5
       print(c, end=" ")
                                                                                       >>>
       n = n-1
```

```
IDLE Shell 3.10.2
leap year.py - C:/Users/azain/OneDrive/Desktop/IBM PROJECT/Python Programs/leap year.p...
                                                                                       File Edit Shell Debug Options Window Help
File Edit Format Run Options Window Help
                                                                                           Python 3.10.2 (tags/v3.10.2:a58ebcc, Jan 17 2022, 14:12:15) [MSC v.1929 64 bit ( ...
year = int(input('enter year'))
                                                                                           AMD64)1 on win32
if year % 400 == 0:
                                                                                           Type "help", "copyright", "credits" or "license()" for more information.
print('it is a leap year')
elif year % 4 == 0:
                                                                                           = RESTART: C:/Users/azain/OneDrive/Desktop/IBM PROJECT/Python Programs/leap year
print('it is a leap year')
elif year % 100 == 0:
                                                                                           .py
                                                                                           enter year2022
 print('not a leap year')
                                                                                           not a leap year
else:
 print('not a leap year')
```

palindrome.py - C:/Users/azain/OneDrive/Desktop/IBM PROJECT/Python Programs/palindro — 🔲 🗶	-	IDLE Shell 3.10.2	_	×	
File Edit Format Run Options Window Help	File	Edit Shell Debug Options Window Help			
<pre>string=input(("Enter a letter:")) if(string==string[::-1]): print("The letter is a palindrome") else: print("The letter is not a palindrome")</pre>	>>>	Python 3.10.2 (tags/v3.10.2:a58ebcc, Jan 17 2022, 14:12:15) [MSC AMD64)] on win32 Type "help", "copyright", "credits" or "license()" for more info = RESTART: C:/Users/azain/OneDrive/Desktop/IBM PROJECT/Python Pre.py Enter a letter:malayalam The letter is a palindrome	ormation.		

```
armstrong.py - C:/Users/azain/OneDrive/Desktop/IBM PROJECT/Python Programs/armstrong... —
                                                                                        ▶ IDLE Shell 3.10.2
File Edit Format Run Options Window Help
                                                                                       File Edit Shell Debug Options Window Help
num = int(input("Enter a number: "))
                                                                                           Python 3.10.2 (tags/v3.10.2:a58ebcc, Jan 17 2022, 14:12:15) [MSC v.1929 64 bit ( ...
sum = 0
                                                                                           AMD64)] on win32
temp = num
                                                                                           Type "help", "copyright", "credits" or "license()" for more information.
while temp > 0:
                                                                                       >>>
  digit = temp % 10
                                                                                           = RESTART: C:/Users/azain/OneDrive/Desktop/IBM PROJECT/Python Programs/armstrong
  sum += digit ** 3
                                                                                            .py
  temp //= 10
                                                                                           Enter a number: 369
if num == sum:
                                                                                           369 is not an Armstrong number
  print (num, "is an Armstrong number")
                                                                                       >>>
                                                                                           = RESTART: C:/Users/azain/OneDrive/Desktop/IBM PROJECT/Python Programs/armstrong
   print (num, "is not an Armstrong number")
                                                                                           Enter a number: 407
                                                                                           407 is an Armstrong number
```