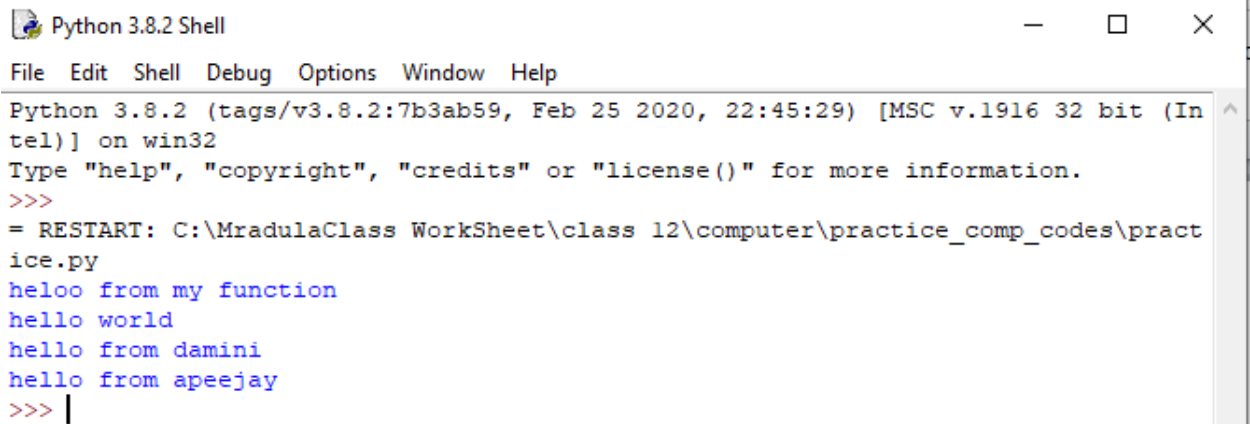


functions codes

1. create a user defined function hello()

```
def hello():  
    print("heloo from my function")  
hello()
```

```
def heloo(s):  
    print("hello from "+s)  
print("hello world")  
heloo("damini")  
a="apeejay"  
heloo(a)
```

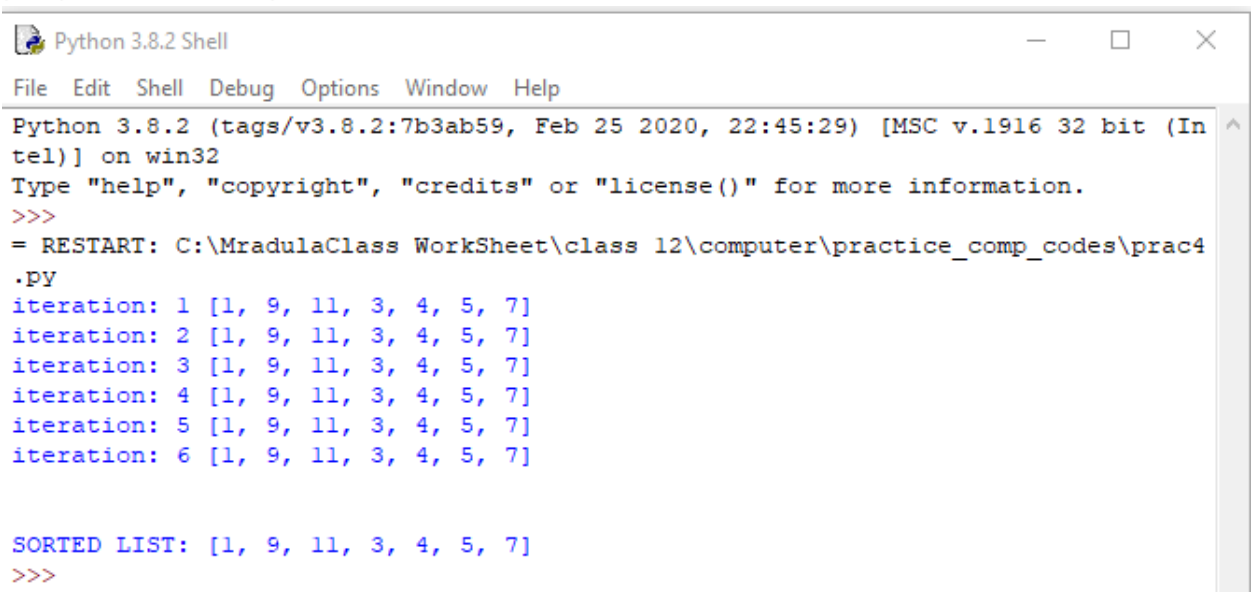


The screenshot shows a Python 3.8.2 Shell window with the following content:

```
Python 3.8.2 Shell  
File Edit Shell Debug Options Window Help  
Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 22:45:29) [MSC v.1916 32 bit (Intel)] on win32  
Type "help", "copyright", "credits" or "license()" for more information.  
>>>  
= RESTART: C:\MradulaClass WorkSheet\class 12\computer\practice_comp_codes\practice.py  
heloo from my function  
hello world  
hello from damini  
hello from apeejay  
>>> |
```

2. bubble sort

```
def bsort(a):
    for j in range(len(a)-1):
        swap=false
        for i in range(len(a)-j-1):
            if a[i]>a[i+1]:
                a[i],a[i+1]=a[i+1],a[i]
                swap=true
        print("iteration:",j+1,a)
        if swap==false:
            break;
z=[1,9,11,3,4,5,7]
bsort(z)
print("\n\nsorted list:",z)
```




```
Python 3.8.2 Shell
File Edit Shell Debug Options Window Help
Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 22:45:29) [MSC v.1916 32 bit (Intel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
= RESTART: C:\MradulaClass WorkSheet\class 12\computer\practice_comp_codes\prac4
.PY
iteration: 1 [1, 9, 11, 3, 4, 5, 7]
iteration: 2 [1, 9, 11, 3, 4, 5, 7]
iteration: 3 [1, 9, 11, 3, 4, 5, 7]
iteration: 4 [1, 9, 11, 3, 4, 5, 7]
iteration: 5 [1, 9, 11, 3, 4, 5, 7]
iteration: 6 [1, 9, 11, 3, 4, 5, 7]

SORTED LIST: [1, 9, 11, 3, 4, 5, 7]
>>>
```

3. insertion sort

```
def isort(a):  
    for i in a:  
        j=a.index(i)  
        while j>0:  
            if a[j-1]>a[j]:  
                a[j-1],a[j]=a[j],a[j-1]  
            else:  
                break  
        j=j-1  
z=[1,3,8,54,34,23,78,43,56]  
isort(z)  
print("sorted list :",z)
```

 Python 3.8.2 Shell

File Edit Shell Debug Options Window Help

Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 22:45:29) [MSC v.1916 32 bit (Intel)] on win32

Type "help", "copyright", "credits" or "license()" for more information.

>>>

= RESTART: C:\MradulaClass WorkSheet\class 12\computer\practice_comp_codes\prac4.py

SORTED LIST : [1, 3, 8, 23, 34, 43, 54, 56, 78]

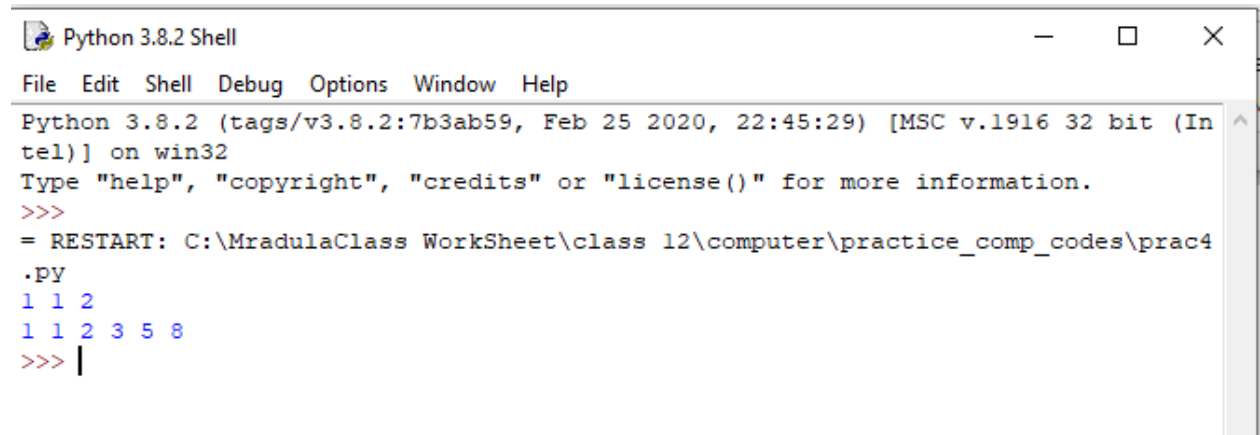
>>> |

4. fibonacci series

```
def fib(n):  
    a,b=0,1  
    while b<n:  
        print(b,end=' ')  
        a,b=b,a+b  
    print()
```

fib(3)

fib(9)



The screenshot shows a Python 3.8.2 Shell window with the following content:

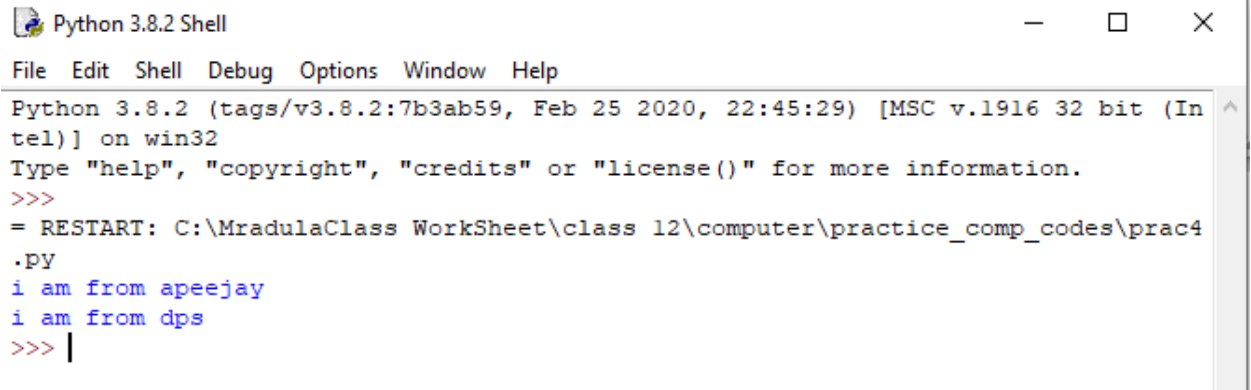
```
Python 3.8.2 Shell  
File Edit Shell Debug Options Window Help  
Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 22:45:29) [MSC v.1916 32 bit (Intel)] on win32  
Type "help", "copyright", "credits" or "license()" for more information.  
>>>  
= RESTART: C:\MradulaClass WorkSheet\class 12\computer\practice_comp_codes\prac4  
.PY  
1 1 2  
1 1 2 3 5 8  
>>> |
```

5. default argument

```
def fun(a='apeejay'): #default argument  
    print('i am from '+a)
```

```
fun()
```

```
fun("dps")
```

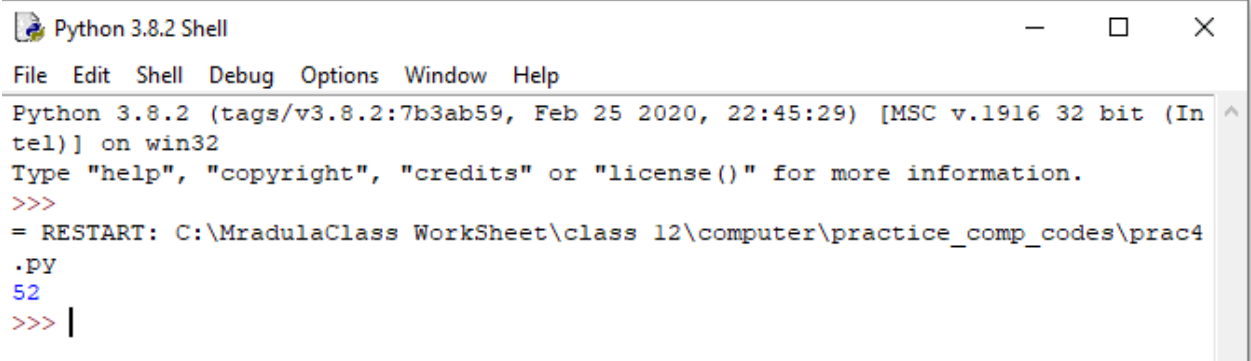


The screenshot shows a Python 3.8.2 Shell window with the following content:

```
Python 3.8.2 Shell  
File Edit Shell Debug Options Window Help  
Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 22:45:29) [MSC v.1916 32 bit (Intel)] on win32  
Type "help", "copyright", "credits" or "license()" for more information.  
>>>  
= RESTART: C:\MradulaClass WorkSheet\class 12\computer\practice_comp_codes\prac4  
.PY  
i am from apeejay  
i am from dps  
>>> |
```

6. functions as building blocks

```
def mpow(b,p):  
    y=b**p  
    return y  
def squ(x):  
    a=mpow(x,2)  
    return a  
n=5  
result=squ(n)+mpow(3,3)  
print(result)
```



The screenshot shows a Python 3.8.2 Shell window with a menu bar (File, Edit, Shell, Debug, Options, Window, Help) and a command prompt interface. The text in the window is as follows:

```
Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 22:45:29) [MSC v.1916 32 bit (Intel)] on win32  
Type "help", "copyright", "credits" or "license()" for more information.  
>>>  
= RESTART: C:\MradulaClass WorkSheet\class 12\computer\practice_comp_codes\prac4  
.py  
52  
>>> |
```

7. scope and lifetime variables

```
def modify():  
    global b;  
    x=10  
    b=b+10  
    x=x+c  
    print(x,b,c)  
def read():  
    print(x,b,c)  
x=20  
b=40  
c=30  
modify()  
print("values outside function",x,b,c)  
read()
```

Python 3.8.2 Shell

File Edit Shell Debug Options Window Help

Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 22:45:29) [MSC v.1916 32 bit (Intel)] on win32

Type "help", "copyright", "credits" or "license()" for more information.

>>>

= RESTART: C:\MradulaClass WorkSheet\class 12\computer\practice_comp_codes\prac4.py

40 50 30

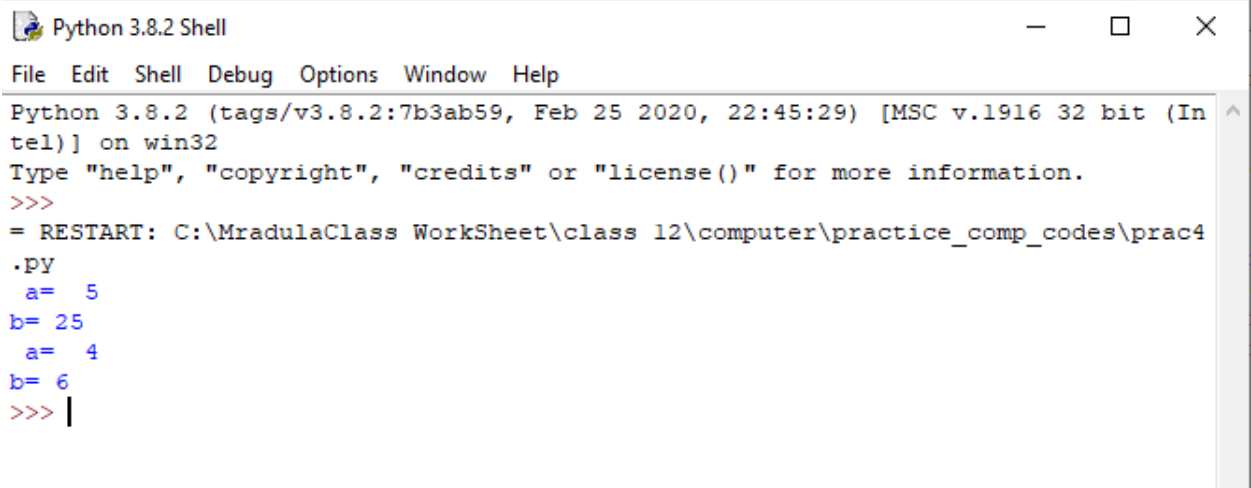
values outside function 20 50 30

20 50 30

>>>

8. predict the output:

```
def calc(num):  
    if num >= 5 :  
        num = num * num  
        return num  
    else:  
        num= num +2  
        return num  
def main(a):  
    b= calc( a)  
    print(" a= ", a)  
    print("b=",b)  
main(5)  
main(4)
```



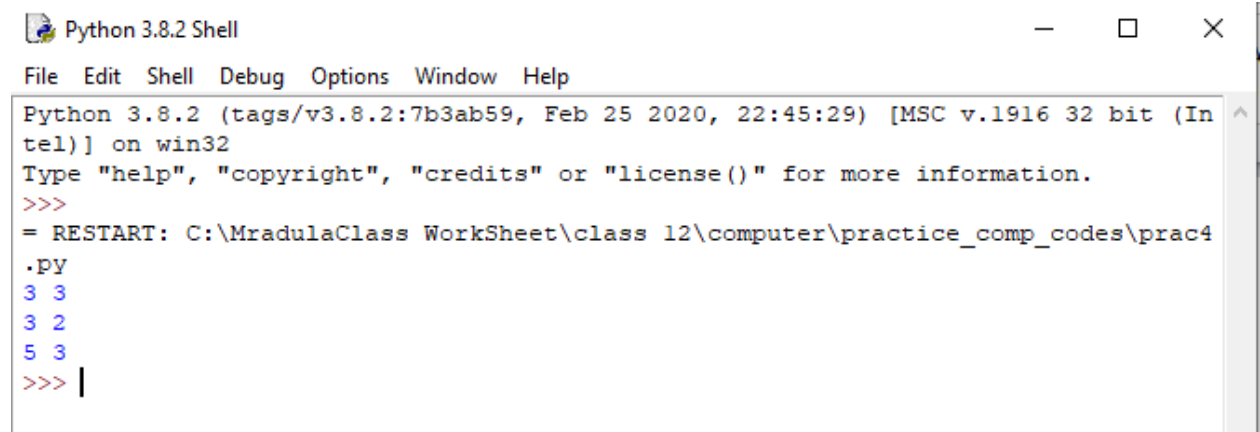
Python 3.8.2 Shell

File Edit Shell Debug Options Window Help

Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 22:45:29) [MSC v.1916 32 bit (Intel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
= RESTART: C:\MradulaClass WorkSheet\class 12\computer\practice_comp_codes\prac4
.PY
a= 5
b= 25
a= 4
b= 6
>>> |

9. predict the output:

```
def magic(n1=1, n2=2):  
    n1=n1+n2  
    n2+=1  
    print(n1,n2)  
magic()  
magic(2,1)  
magic(3)
```

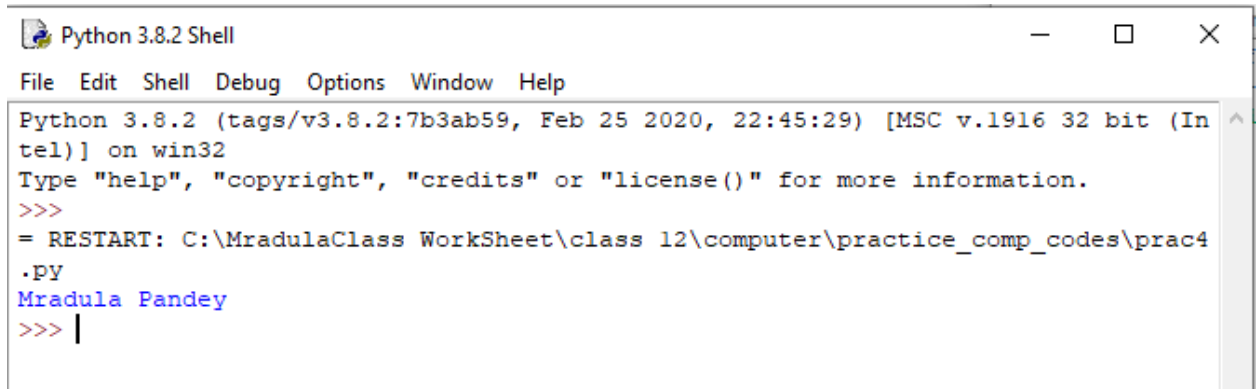


A screenshot of a Python 3.8.2 Shell window. The window title is "Python 3.8.2 Shell". The menu bar includes "File", "Edit", "Shell", "Debug", "Options", "Window", and "Help". The main text area shows the following output:

```
Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 22:45:29) [MSC v.1916 32 bit (Intel)] on win32  
Type "help", "copyright", "credits" or "license()" for more information.  
>>>  
= RESTART: C:\MradulaClass WorkSheet\class 12\computer\practice_comp_codes\prac4  
.py  
3 3  
3 2  
5 3  
>>> |
```

10. positional argument

```
def my_function(fname, lname):  
    print(fname + " " + lname)  
my_function("mradula", "pandey")
```



The screenshot shows a Python 3.8.2 Shell window with the following content:

```
Python 3.8.2 Shell  
File Edit Shell Debug Options Window Help  
Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 22:45:29) [MSC v.1916 32 bit (Intel)] on win32  
Type "help", "copyright", "credits" or "license()" for more information.  
>>>  
= RESTART: C:\MradulaClass WorkSheet\class 12\computer\practice_comp_codes\prac4  
.py  
Mradula Pandey  
>>> |
```

11. keyword argument

```
def my_function(child3, child2, child1):  
    print("the youngest child is " + child3)  
my_function(child1 = "aman", child2 = "anirudh", child3 ="siddharth")
```

Python 3.8.2 Shell

File Edit Shell Debug Options Window Help

Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 22:45:29) [MSC v.1916 32 bit (Intel)] on win32

Type "help", "copyright", "credits" or "license()" for more information.

>>> |

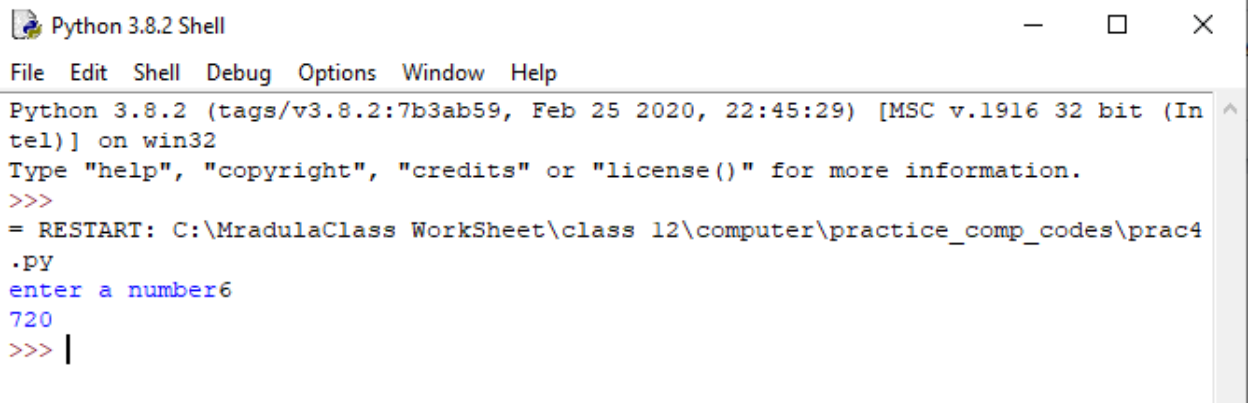
= RESTART: C:\MradulaClass WorkSheet\class 12\computer\practice_comp_codes\prac4.py

The youngest child is Siddharth

>>>

12. to display the factorial of a number

```
def fact(n):  
    t=1  
    for i in range(1,n+1):  
        t*=i  
    print(t)  
y=int(input("enter a number"))  
fact(y)
```

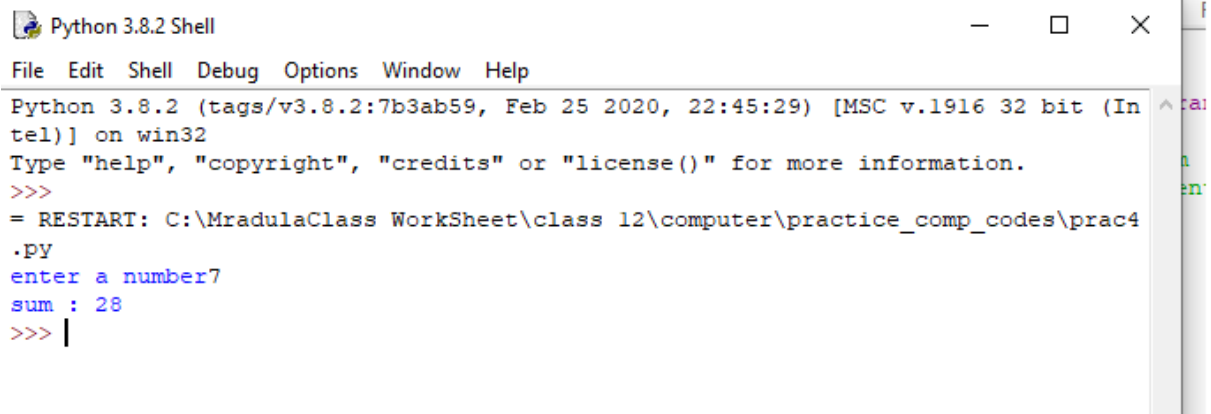


The screenshot shows a Python 3.8.2 Shell window with the following content:

```
Python 3.8.2 Shell  
File Edit Shell Debug Options Window Help  
Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 22:45:29) [MSC v.1916 32 bit (Intel)] on win32  
Type "help", "copyright", "credits" or "license()" for more information.  
>>>  
= RESTART: C:\MradulaClass WorkSheet\class 12\computer\practice_comp_codes\prac4  
.py  
enter a number6  
720  
>>> |
```

13. to display sum of number between 1 to n.

```
def sumn(n):  
    s=0  
    for i in range(1,n+1):  
        s+=i  
    print("sum :",s)  
w=int(input("enter a number"))  
sumn(w)
```

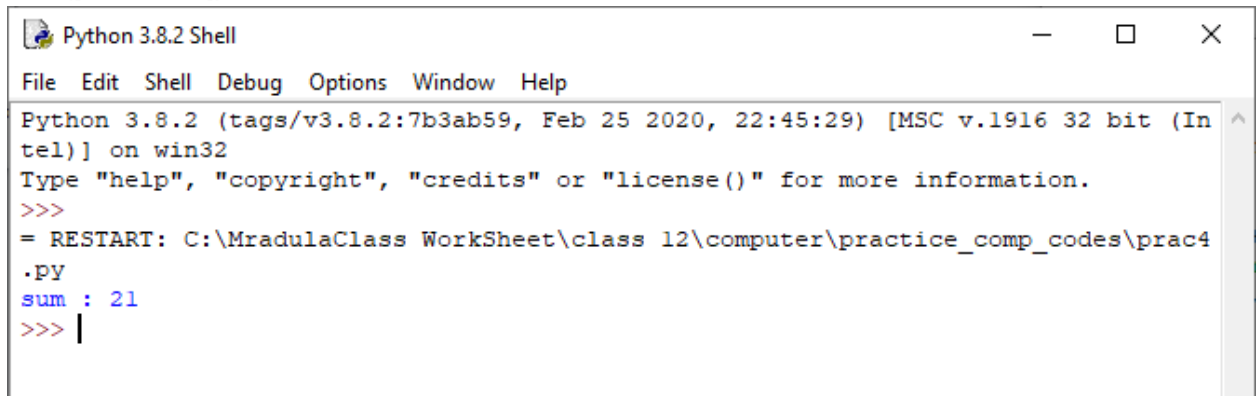


The screenshot shows a Python 3.8.2 Shell window with the following content:

```
Python 3.8.2 Shell  
File Edit Shell Debug Options Window Help  
Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 22:45:29) [MSC v.1916 32 bit (Intel)] on win32  
Type "help", "copyright", "credits" or "license()" for more information.  
>>>  
= RESTART: C:\MradulaClass WorkSheet\class 12\computer\practice_comp_codes\prac4  
.PY  
enter a number7  
sum : 28  
>>> |
```

14. to display the sum of elements in a list.

```
def suml(n):  
    s=0  
    if n==[]:  
        s=0  
    else:  
        for i in n:  
            s+=i  
    print("sum :",s)  
suml([1,2,3,4,5,6])
```

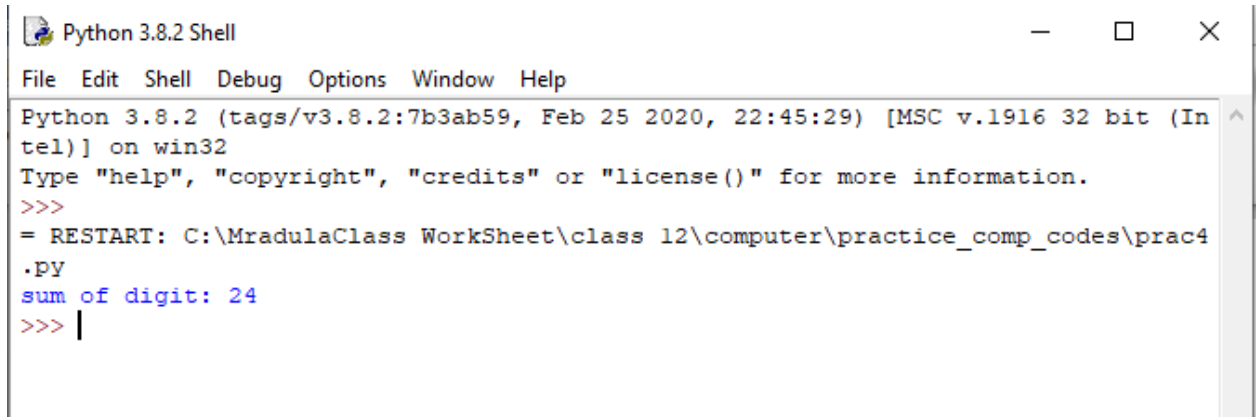


The screenshot shows a Python 3.8.2 Shell window with the following content:

```
Python 3.8.2 Shell  
File Edit Shell Debug Options Window Help  
Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 22:45:29) [MSC v.1916 32 bit (Intel)] on win32  
Type "help", "copyright", "credits" or "license()" for more information.  
>>>  
= RESTART: C:\MradulaClass WorkSheet\class 12\computer\practice_comp_codes\prac4  
.PY  
sum : 21  
>>> |
```

15. to display the sum of digits.

```
def sumd(n):  
    s=0  
    for i in str(n):  
        s+=int(i)  
    print("sum of digit:",s)  
sumd(123387)
```

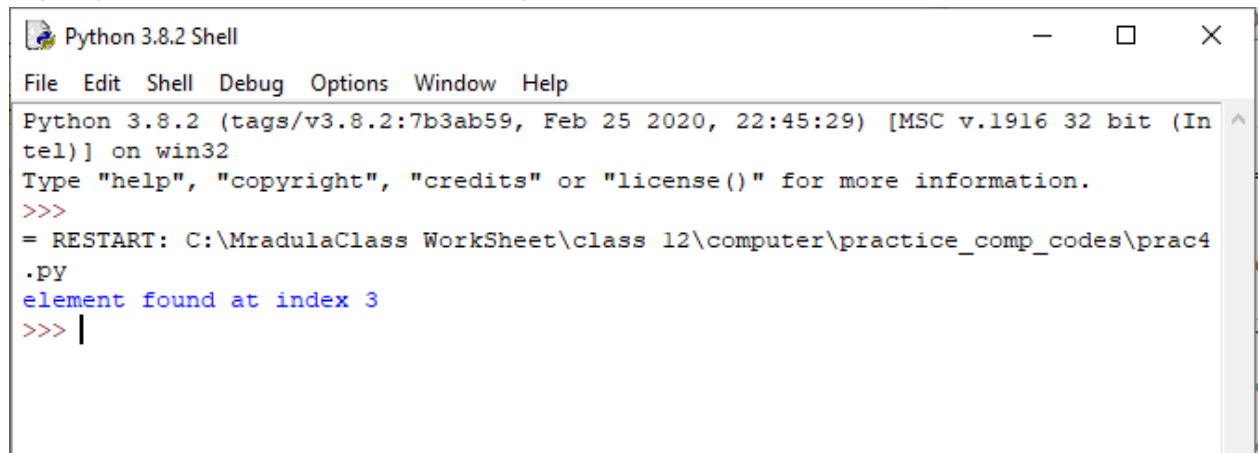


The screenshot shows a Python 3.8.2 Shell window with a menu bar (File, Edit, Shell, Debug, Options, Window, Help) and a title bar (Python 3.8.2 Shell). The window contains the following text:

```
Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 22:45:29) [MSC v.1916 32 bit (Intel)] on win32  
Type "help", "copyright", "credits" or "license()" for more information.  
>>>  
= RESTART: C:\MradulaClass WorkSheet\class 12\computer\practice_comp_codes\prac4  
.py  
sum of digit: 24  
>>> |
```

16. linear search

```
def lsearch(plist,e):
    position=-1
    for i in range(0,len(plist)):
        if (plist[i] == e):
            position=i
            break;
    return position
mylist=[1,2,3,4,10,40,60,70,100]
element=4
pos=lsearch(mylist,element)
if pos != -1:
    print("element found at index %d"%pos)
else:
    print("element not found in list collection")
```

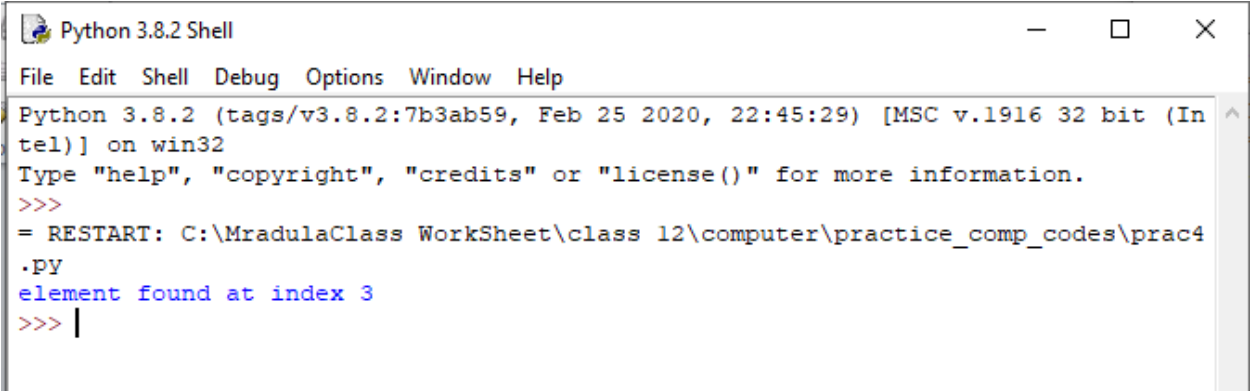


The screenshot shows a Python 3.8.2 Shell window with the following content:

```
Python 3.8.2 Shell
File Edit Shell Debug Options Window Help
Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 22:45:29) [MSC v.1916 32 bit (Intel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
= RESTART: C:\MradulaClass WorkSheet\class 12\computer\practice_comp_codes\prac4
.py
element found at index 3
>>> |
```


17. binary search

```
def bsearch(plist,x):
    low=found=0
    high=len(plist)
    pos=-1
    while low<=high:
        mid=(low+high)//2
        if plist[mid]==x:
            found=1
            pos=mid
            break
        elif plist[mid]<x:
            low=mid+1
        else:
            high=mid-1
    return(pos)
mylist=[1,2,3,4,10,40,60,70,100]
element=4
pos=bsearch(mylist,element)
if pos != -1:
    print("element found at index %d"%pos)
else:
    print("element not found in the list")
```

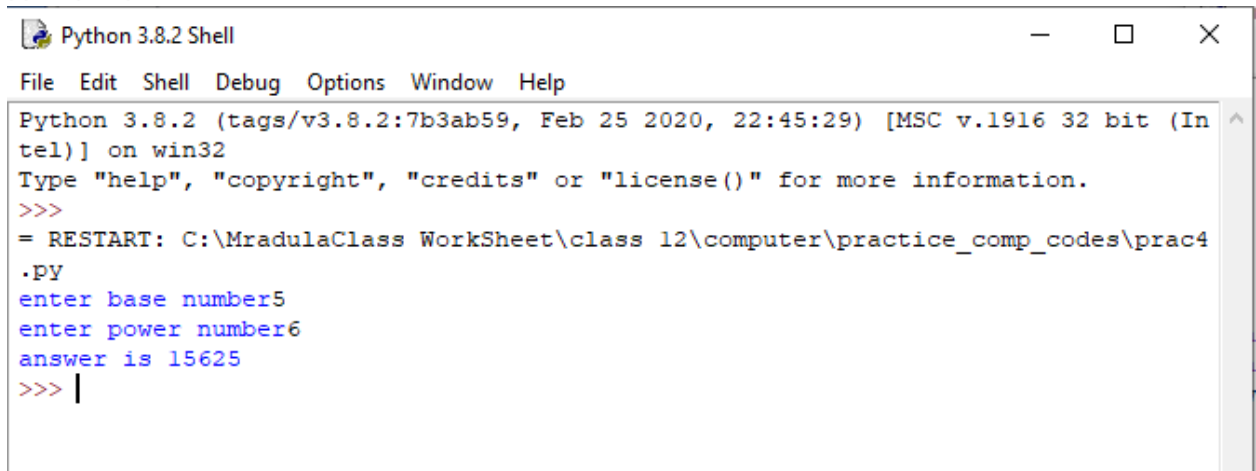


The screenshot shows a Python 3.8.2 Shell window with the following content:

```
Python 3.8.2 Shell
File Edit Shell Debug Options Window Help
Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 22:45:29) [MSC v.1916 32 bit (Intel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
= RESTART: C:\MradulaClass WorkSheet\class 12\computer\practice_comp_codes\prac4
.PY
element found at index 3
>>> |
```

18. to display x^y .

```
def ppow(x,y):
    t=1
    if y==0:
        print("answer is 1")
    else:
        for i in range(y):
            t*=x
        print("answer is",t)
m=int(input("enter base number"))
n=int(input("enter power number"))
ppow(m,n)
```

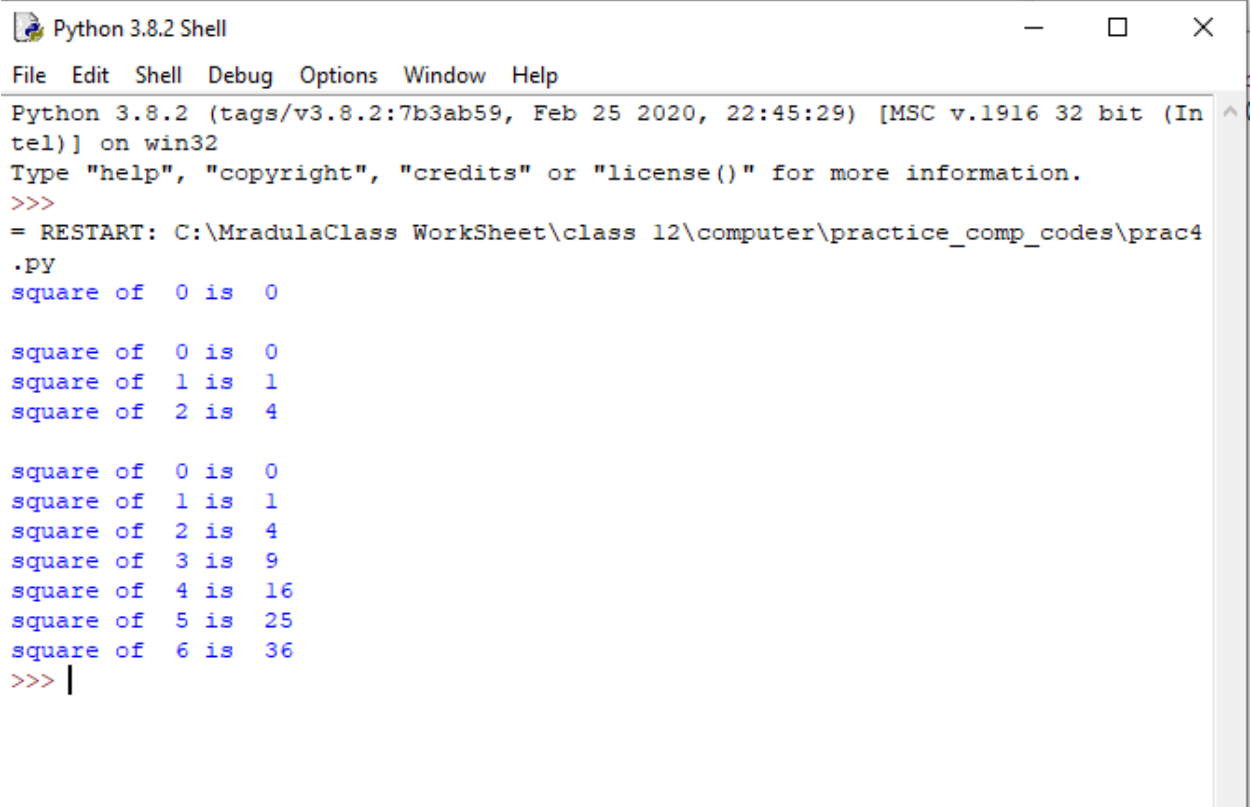


The screenshot shows a Python 3.8.2 Shell window with the following content:

```
Python 3.8.2 Shell
File Edit Shell Debug Options Window Help
Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 22:45:29) [MSC v.1916 32 bit (Intel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
= RESTART: C:\MradulaClass WorkSheet\class 12\computer\practice_comp_codes\prac4
.py
enter base number5
enter power number6
answer is 15625
>>> |
```

19. wap to compute and print the square of n numbers

```
def sq(n):  
    for i in range(n+1):  
        print("square of " ,i,"is ",i**2)  
sq(0)  
print()  
sq(2)  
print()  
sq(6)
```

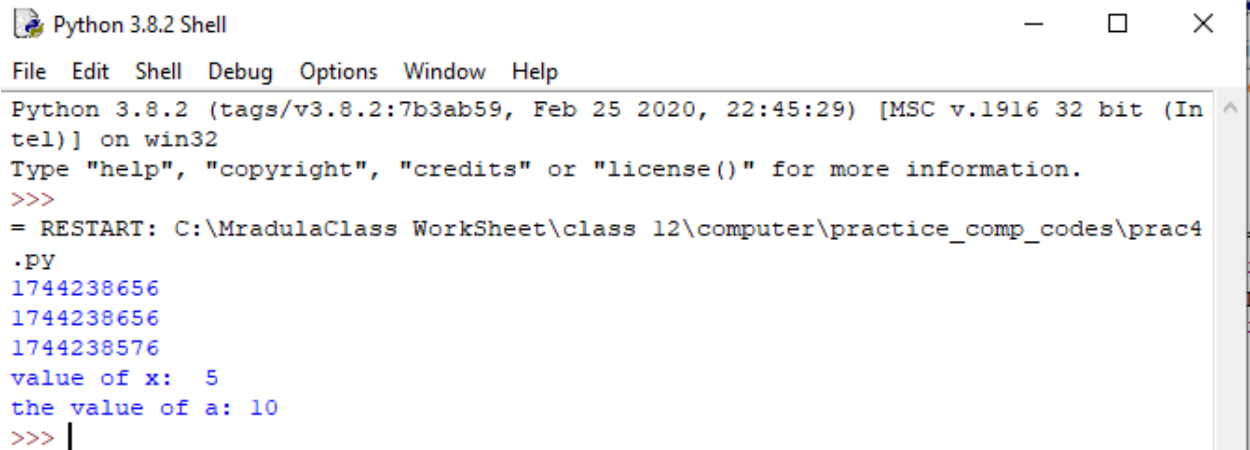


The screenshot shows a Python 3.8.2 Shell window with the following content:

```
Python 3.8.2 Shell  
File Edit Shell Debug Options Window Help  
Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 22:45:29) [MSC v.1916 32 bit (Intel)] on win32  
Type "help", "copyright", "credits" or "license()" for more information.  
>>>  
= RESTART: C:\MradulaClass WorkSheet\class 12\computer\practice_comp_codes\prac4  
.py  
square of 0 is 0  
  
square of 0 is 0  
square of 1 is 1  
square of 2 is 4  
  
square of 0 is 0  
square of 1 is 1  
square of 2 is 4  
square of 3 is 9  
square of 4 is 16  
square of 5 is 25  
square of 6 is 36  
>>> |
```

20. update method

```
def update(x):  
    print(id(x))  
    x=5  
    print(id(x))  
    print("value of x: ",x)  
a=10  
print(id(a))  
update(a)  
print("the value of a:",a)
```

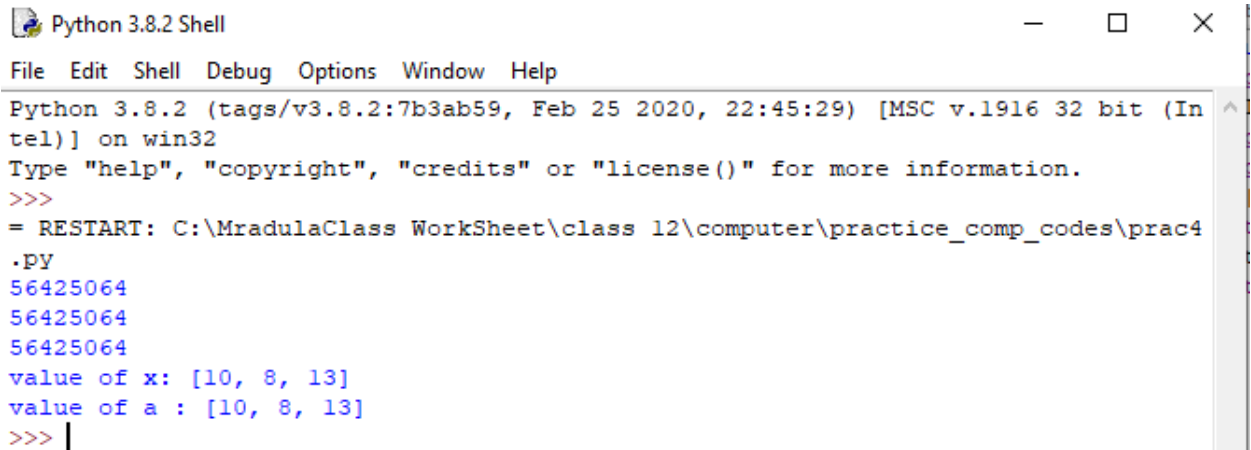


The screenshot shows a Python 3.8.2 Shell window with the following output:

```
Python 3.8.2 Shell  
File Edit Shell Debug Options Window Help  
Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 22:45:29) [MSC v.1916 32 bit (Intel)] on win32  
Type "help", "copyright", "credits" or "license()" for more information.  
>>>  
= RESTART: C:\MradulaClass WorkSheet\class 12\computer\practice_comp_codes\prac4  
.PY  
1744238656  
1744238656  
1744238576  
value of x: 5  
the value of a: 10  
>>> |
```

21. passing list to functions

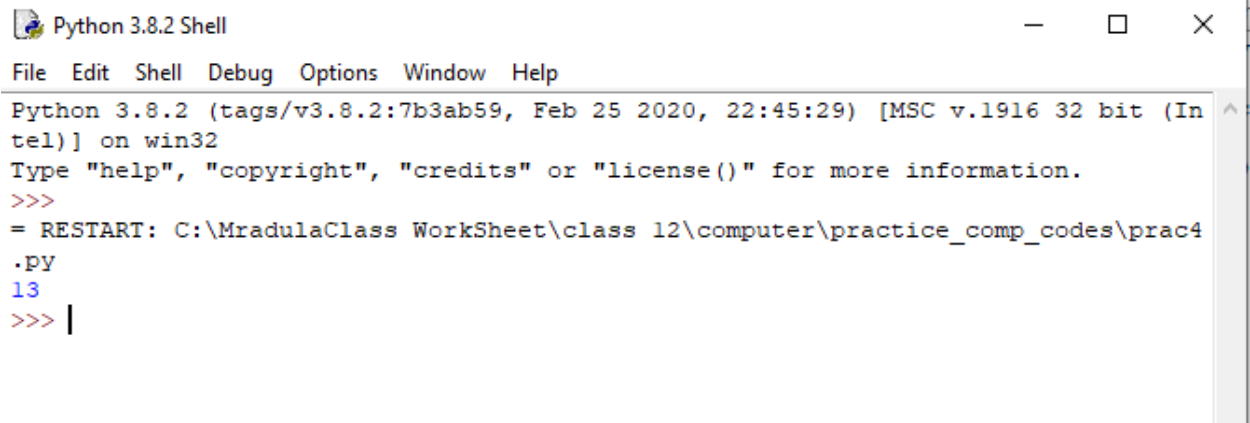
```
def update(lst):  
    print(id(lst))  
    lst[1]=8  
    print(id(lst))  
    print("value of x:",lst)  
lst=[10,12,13]  
print(id(lst))  
update(lst)  
print("value of a :",lst)
```



```
Python 3.8.2 Shell  
File Edit Shell Debug Options Window Help  
Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 22:45:29) [MSC v.1916 32 bit (Intel)] on win32  
Type "help", "copyright", "credits" or "license()" for more information.  
>>>  
= RESTART: C:\MradulaClass WorkSheet\class 12\computer\practice_comp_codes\prac4  
.py  
56425064  
56425064  
56425064  
value of x: [10, 8, 13]  
value of a : [10, 8, 13]  
>>> |
```

22. positional argument

```
def add(x,y):  
    c=x+y  
    print(c)  
    return c  
add(y=4,x=9)
```

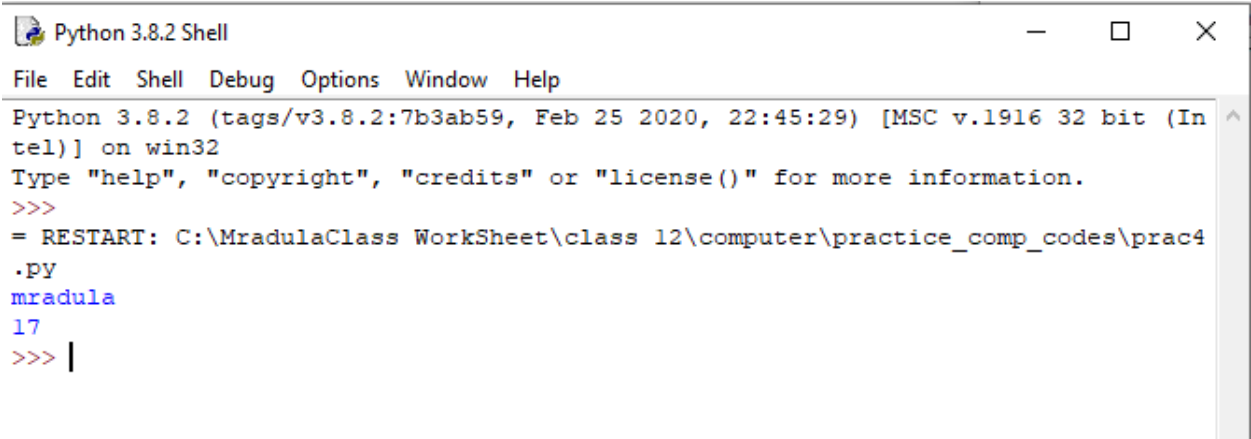


The screenshot shows a Python 3.8.2 Shell window with a menu bar (File, Edit, Shell, Debug, Options, Window, Help) and a status bar. The main text area displays the following content:

```
Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 22:45:29) [MSC v.1916 32 bit (Intel)] on win32  
Type "help", "copyright", "credits" or "license()" for more information.  
>>>  
= RESTART: C:\MradulaClass WorkSheet\class 12\computer\practice_comp_codes\prac4  
.PY  
13  
>>> |
```

23. default argument

```
def fb(name,age=17):  
    print(name)  
    print(age)  
fb("mradula")
```

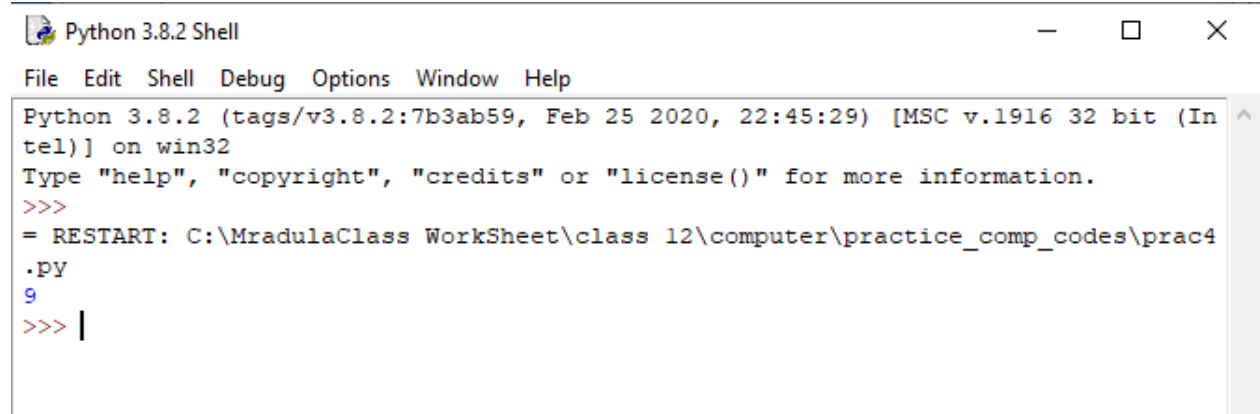


The screenshot shows a Python 3.8.2 Shell window with the following content:

```
Python 3.8.2 Shell  
File Edit Shell Debug Options Window Help  
Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 22:45:29) [MSC v.1916 32 bit (Intel)] on win32  
Type "help", "copyright", "credits" or "license()" for more information.  
>>>  
= RESTART: C:\MradulaClass WorkSheet\class 12\computer\practice_comp_codes\prac4  
.py  
mradula  
17  
>>> |
```

24. variable length argument

```
def add(*b):  
    c=0  
    for i in b:  
        c+=1  
    print(c)  
    return c  
add(2,3,4,43,34,56,65,765,7532)
```

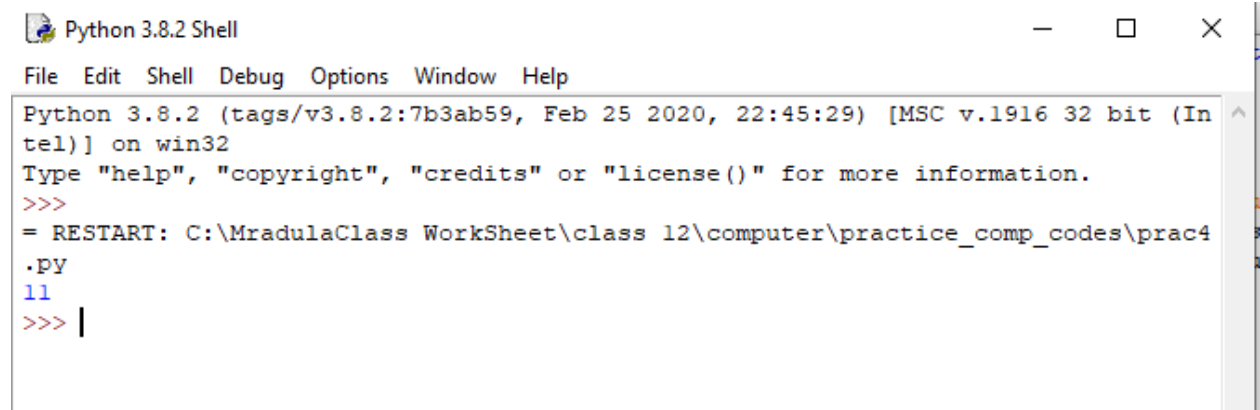


The screenshot shows a Python 3.8.2 Shell window with the following content:

```
Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 22:45:29) [MSC v.1916 32 bit (Intel)] on win32  
Type "help", "copyright", "credits" or "license()" for more information.  
>>>  
= RESTART: C:\MradulaClass WorkSheet\class 12\computer\practice_comp_codes\prac4  
.PY  
9  
>>> |
```


25. a python program to access a function inside a function

```
def test(a):  
    def add(b):  
        nonlocal a  
        a+=1  
        return a+b  
    return add  
func=test(5)  
print(func(5))
```

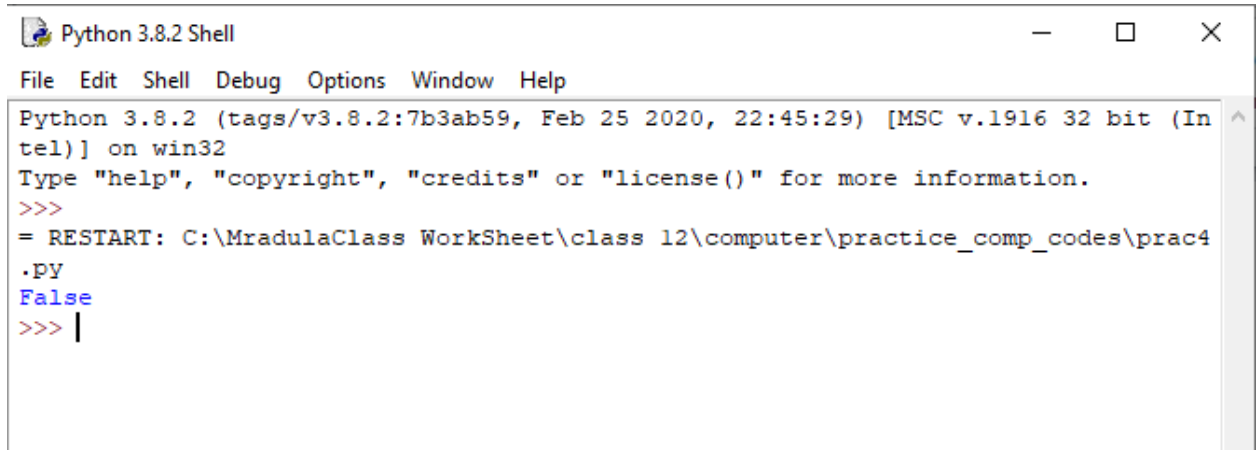


The screenshot shows a Python 3.8.2 Shell window with the following content:

```
Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 22:45:29) [MSC v.1916 32 bit (Intel)] on win32  
Type "help", "copyright", "credits" or "license()" for more information.  
>>>  
= RESTART: C:\MradulaClass WorkSheet\class 12\computer\practice_comp_codes\prac4  
.py  
11  
>>> |
```

26. to check whether a number is perfect or not

```
def perfect(n):  
    sum=0  
    for x in range(1,n):  
        if n%x==0:  
            sum+=x  
    return sum==n  
print(perfect(6))
```

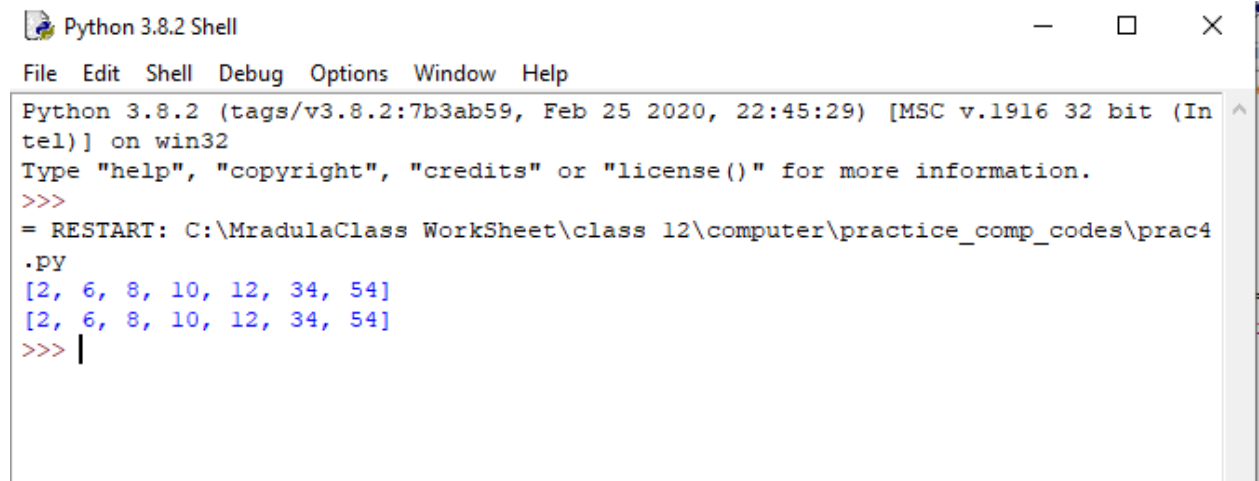


The screenshot shows a Python 3.8.2 Shell window with the following content:

```
Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 22:45:29) [MSC v.1916 32 bit (Intel)] on win32  
Type "help", "copyright", "credits" or "license()" for more information.  
>>>  
= RESTART: C:\MradulaClass WorkSheet\class 12\computer\practice_comp_codes\prac4  
.PY  
False  
>>> |
```

27. a python program to print the even numbers from a given list.

```
def even(n):  
    enum=[]  
    for i in n:  
        if i%2==0:  
            enum.append(i)  
    print(enum)  
    return enum  
l=[1,2,5,6,8,10,12,34,54,55,77]  
print(even(l))
```



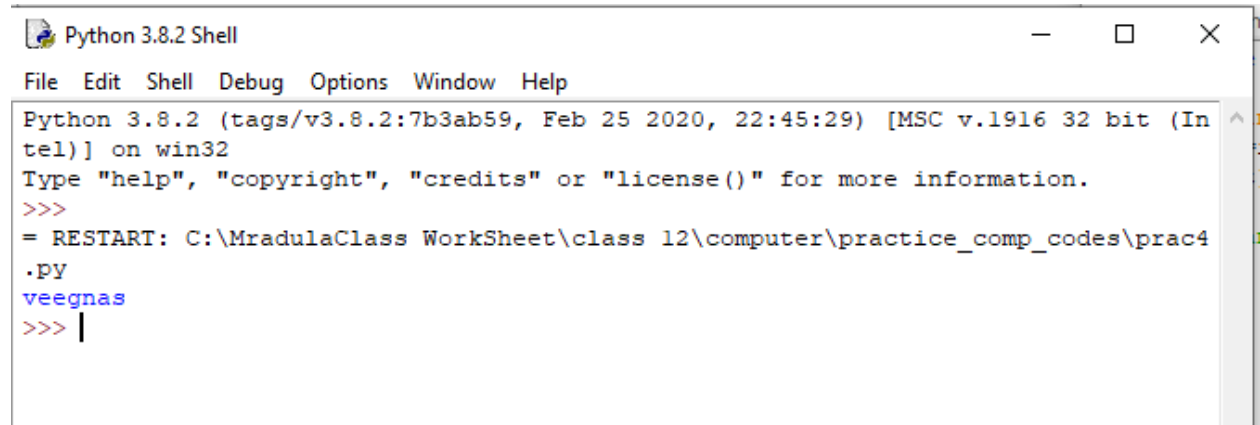
The screenshot shows a Python 3.8.2 Shell window with the following content:

```
Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 22:45:29) [MSC v.1916 32 bit (Intel)] on win32  
Type "help", "copyright", "credits" or "license()" for more information.  
>>>  
= RESTART: C:\MradulaClass WorkSheet\class 12\computer\practice_comp_codes\prac4  
.py  
[2, 6, 8, 10, 12, 34, 54]  
[2, 6, 8, 10, 12, 34, 54]  
>>> |
```

28. a python program to reverse a string

```
def reverse(n):  
    t=""  
    for i in n[::-1]:  
        t+=i  
    print(t)
```

reverse("sanjeev")

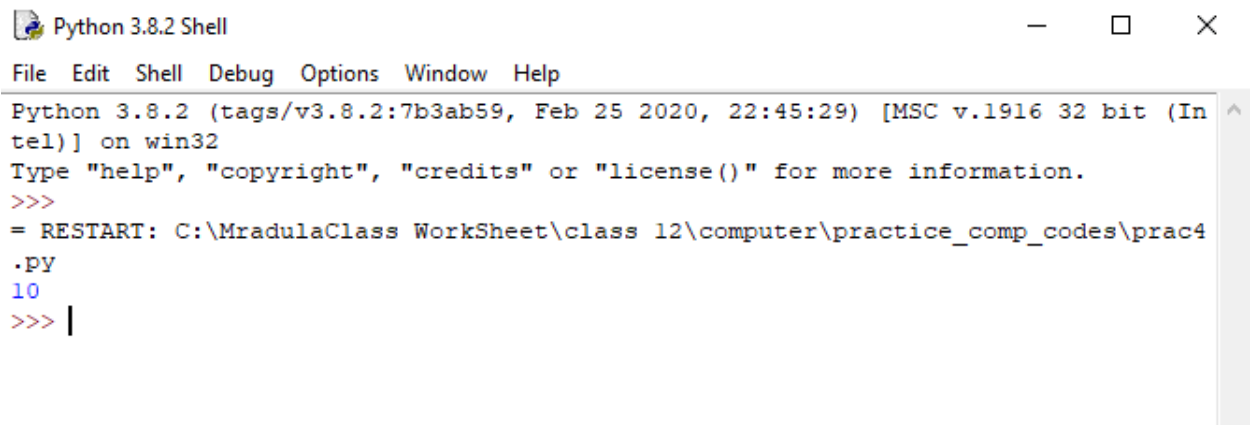


The screenshot shows a Python 3.8.2 Shell window with the following content:

```
Python 3.8.2 Shell  
File Edit Shell Debug Options Window Help  
Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 22:45:29) [MSC v.1916 32 bit (Intel)] on win32  
Type "help", "copyright", "credits" or "license()" for more information.  
>>>  
= RESTART: C:\MradulaClass WorkSheet\class 12\computer\practice_comp_codes\prac4  
.py  
veegnas  
>>> |
```

29. a python function to find the maximum of three.

```
def max1(x,y):  
    if x>y:  
        return x  
    return y  
def max2(x,y,z):  
    return max1(x,max1(y,z))  
print(max2(9,10,-15))
```

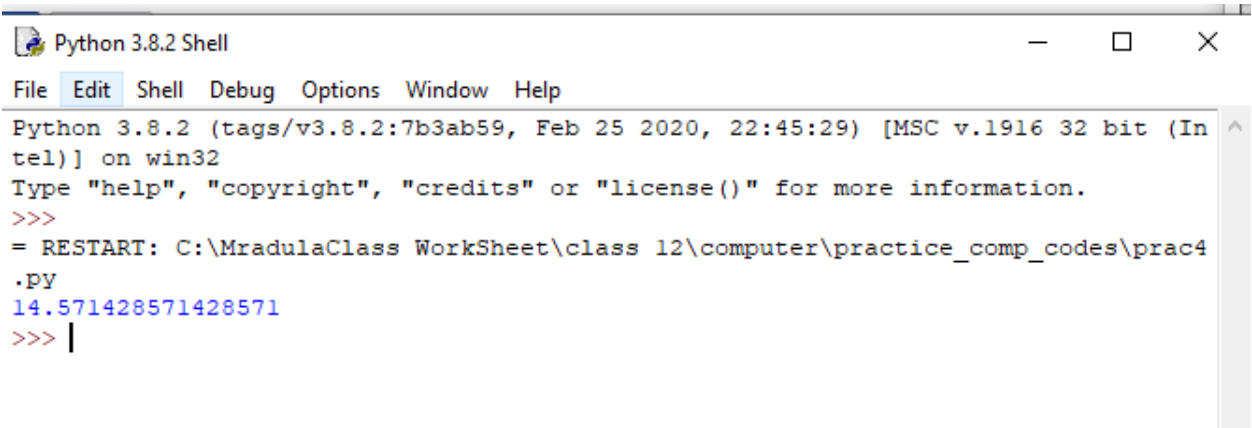


The screenshot shows a Python 3.8.2 Shell window with the following content:

```
Python 3.8.2 Shell  
File Edit Shell Debug Options Window Help  
Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 22:45:29) [MSC v.1916 32 bit (Intel)] on win32  
Type "help", "copyright", "credits" or "license()" for more information.  
>>>  
= RESTART: C:\MradulaClass WorkSheet\class 12\computer\practice_comp_codes\prac4  
.PY  
10  
>>> |
```

30. to calculate the arithmetic mean of list elements.

```
def aver(lst):  
    l=len(lst)  
    sum=0  
    for i in lst:  
        sum+=i  
    return sum/l  
avrg=[1,4,6,4,3,76,8]  
print(aver(avrg))
```

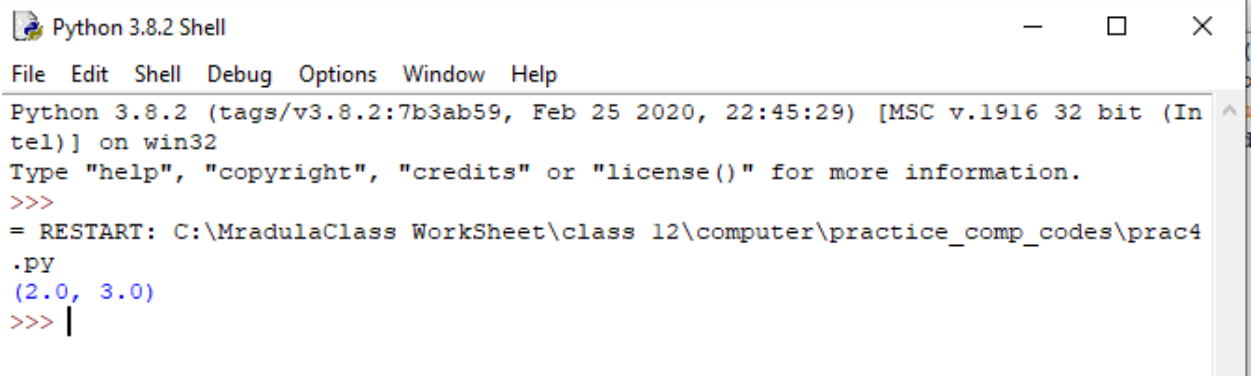


The screenshot shows a Python 3.8.2 Shell window with the following content:

```
Python 3.8.2 Shell  
File Edit Shell Debug Options Window Help  
Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 22:45:29) [MSC v.1916 32 bit (Intel)] on win32  
Type "help", "copyright", "credits" or "license()" for more information.  
>>>  
= RESTART: C:\MradulaClass WorkSheet\class 12\computer\practice_comp_codes\prac4  
.PY  
14.571428571428571  
>>> |
```

31. program to find the roots of a quadratic equation.

```
def qdf(a,b,c):  
    d=(b**2-4*a*c)**0.5  
    return (-b-d)/2*a , (-b+d)/2*a  
print(qdf(1,-5,6))
```



The screenshot shows a Python 3.8.2 Shell window with the following content:

```
Python 3.8.2 Shell  
File Edit Shell Debug Options Window Help  
Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 22:45:29) [MSC v.1916 32 bit (Intel)] on win32  
Type "help", "copyright", "credits" or "license()" for more information.  
>>>  
= RESTART: C:\MradulaClass WorkSheet\class 12\computer\practice_comp_codes\prac4  
.PY  
(2.0, 3.0)  
>>> |
```