python programming

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List of programming languages ordered lists

1. python
2. java
3. c
4. c++
5. .net

List of programming languages unordered lists

- python
  - core python
  - adv python
- java
- c
- c++
- .net

Bold and italic

- **Python programming**
- *Python programming*

click here

Code

In [2]:
```
a = 10 #integer
b = 23.4 #float
c = 12+3j #complex

print(type(a),type(b),type(c))
```

```
<class 'int'> <class 'float'> <class 'complex'>
```

In [3]:
```
c1 = 4+5j
c2 = complex(6,8)
print(c1+c2)
print(c2.real)#real part of the complex number
print(c2.imag)#imaginary part of the complex number
```

```
(10+13j)
6.0
8.0
```

In [7]:
```
#input and output functions
#input --> input()
#output --> output()
a = int(input("Enter the value of a"))
b = int(input("Enter the value of b"))
print(a+b,end=" ")
print(a-b,a*b,a/b,sep=",")
```

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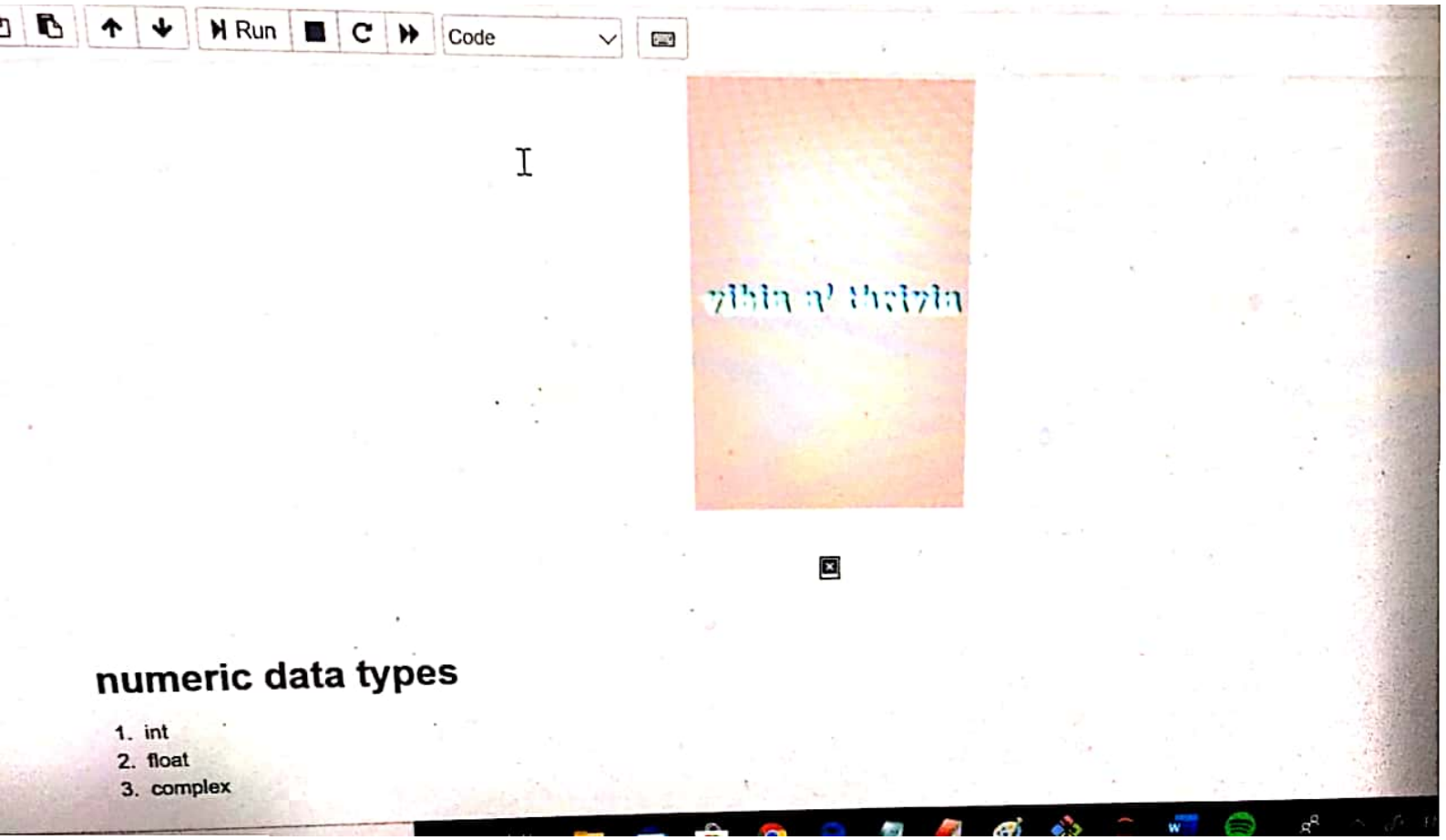

numeric data types

1. int
2. float
3. complex

```
print(c2.imag)#imaginary part of the complex number
```

```
(10+13j)
6.0
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In [7]:
```
#input and output functions
#input --> input()
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a = int(input("Enter the value of a"))
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print(a+b,end=" ")
print(a-b,a*b,a/b,sep=",")
```

```
Enter the value of a10
Enter the value of b20
30 -10,200,0.5
```

In [9]:
```
#Arithematic operators: +,-,*,/,%,//(floor division),**(exponential)
a = int(input("enter a value"))
b = int(input("enter b value"))
print(a+b)
print(a-b)
print(a*b)
print(a/b)#float quotient
print(a%b)#remainder
print(a//b)#int quotient
```

In [16]:
```
#conditional statements: if,else,elif

if a < b:
    print("a is less than b")
elif a > b:
    print("a is greater than b")
else:
    print("a or equals to b")
```

```
a is less than b
```

In [17]:
```
#question : find the largest of three numbers

a=int(input("enter a value"))
b=int(input("enter b value"))
c=int(input("enter c value"))
if a>b and a>c:
    print("largest number is a:",a)
elif b>c:
    print("largest number is b:",b)
else:
    print("largest number is c:",c)
```

```
enter a value2
enter b value5
enter c value12
largest number is c: 12
```

Edit View Insert Cell Kernel Widgets Help

Run Code

```
else:
    print("largest number is c:",c)
```

```
enter a value2
enter b value5
enter c value12
largest number is c: 12
```

In [18]:

```
#Loops : while,for
#print 1 to n values
n = int(input("Enter n value"))
i = 1
while i<=n:
    print(i,end=" ")
    i += 1#i=i+1
```

```
Enter n value10
1 2 3 4 5 6 7 8 9 10
```

In [ ]:

[12]:
```
#Logicaal operators: and,or,not -->return type - boolean
#print(help("keywords"))
print(a < b and a>1)
print(a < b or a>1)
print(not a < b)
```

```
True
True
False
```

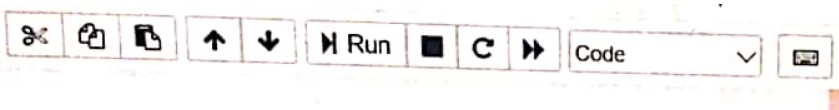
[14]:
```
#membership operators

list1 = [12,23,34,45,56,67]
print(12 in list1)#true
print(120 in list1)#false
print(12 not in list1)#false
print(120 not in list1)#true
```

```
True
False
False
True
```

In [16]:
```
#conditional statements: if,else,elif

if a < b:
```



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3. complex

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```
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In [3]:
```
c1 = 4+5j
c2 = complex(6,8)
print(c1+c2)
```

```
print(a ** b)# 2 5
```

```
enter a value2
enter b value5
7
-3
10
0.4
2
0
32
```

In [11]:
```
#relational Operators: <,>,<=,>=,==,!=
print(a < b)#true
print(a > b)
print(a <= b)
print(a >= b)
print(a != b)
print(a == b)
```

```
True
False
True
False
True
False
```

In [12]:
```
#Logicaal operators: and,or,not -->return type - boolean
```

Type here to search