In [38]:

```
num1=22
num2=45
num3 = 78
sum=num1+num2
mul = sum**num3
print(format(num3,sum,mul))
```

```
---------------------------------------------------------------------------
TypeError                                 Traceback (most recent call last)
C:\Users\ANILKU~1\AppData\Local\Temp/ipykernel_2816/3820478568.py in <module
>
      4 sum=num1+num2
      5 mul = sum**num3
----> 6 print(format(num3,sum,mul))

TypeError: format expected at most 2 arguments, got 3
```

In [33]:

```
num=8
num_sqrt=num**0.5
print('the square root of %0.3f is %0.3f'%(num,num_sqrt))
```

```
the square root of 8.000 is 2.828
```

In [1]:

```
# to find the triangle of  area
a=5
b=6
c=7
s=(a+b+c)/2
# caluculate the area
area =(s*(s-a)*(s-b)*(s-c))**0.5
print('the area of triangle is %0.2f '%area)
```

```
the area of triangle is 14.70
```

In [46]:

```
a="shiva"
print(a)
print('hiii')
```

```
shiva
hiii
```

In [49]:

```
a="shiva,Anil"
print(a[2],a[0],a[9])
```

```
i s l
```

In [76]:

```
for x in "banana":
print(x)
```

```
  File "C:\Users\ANILKU~1\AppData\Local\Temp/ipykernel_2816/1788261121.py",
 line 2
    print(x)
    ^
IndentationError: expected an indented block
```

In [74]:

```
for a in "ANIL,KUMAR!":
    print(len(a))
```

```
1
1
1
1
1
1
1
1
1
1
1
```

In [66]:

```
 a = "Hello, World!"
print(a[1])
```

```
e
```

In [67]:

```
 a = "Hello, World!"
print(len(a))
```

```
13
```

In [70]:

```
a = "hiiiiiiii,hhhhhhhh!"
print(len(a))
```

```
19
```

In [71]:

```
for x in "banana":
 print(x)
```

```
b
a
n
a
n
a
```

In [72]:

```
for a in "Kumar":
    print(a)
```

```
K
u
m
a
r
```

In [77]:

```
for i in "iam":
    print(i)
```

```
i
a
m
```

In [86]:

```
txt = "how are you"
    if "you" in txt:
    print("yes,'you' is present.")
    else
    print("yes,'you' is not present.")
```

```
  File "C:\Users\ANILKU~1\AppData\Local\Temp/ipykernel_2816/583443372.py", l
ine 2
    if "you" in txt:
    ^
IndentationError: unexpected indent
```

In [83]:

```
txt = "The best things in life are free!"
if "expensive" not in txt:
 print("Yes, 'expensive' is NOT present.")
```

```
Yes, 'expensive' is NOT present.
```

In [105]:

```
txt = "iam going to home"
if "home" in txt:
    print("yes,'home' is present.")
txt = "iam going to home!"
if "money" in txt:
    print("yes,'money' in txt")
print("yes,'money' not in txt")
```

```
yes,'home' is present.
yes,'money' not in txt
```

In [111]:

```
x="hello,hiii"
print(x[2:5])
x="hello,boy"
print(x[-5:-2])
```

```
llo
o,b
```

In [115]:

```
a="anil"
print(a.upper())
b="sHiVa"
print(b.lower())
print(b.upper())
```

```
ANIL
shiva
SHIVA
```

In [117]:

```
abc="hello world!"
print(abc.strip())
a = "hello, World!"
print(a.replace("h","j"))
```

```
hello world!
jello, World!
```

In [118]:

```
a="anil,Kumar"
print(a.split(","))
```

```
['anil', 'Kumar']
```

In [123]:

```
list=("anil","Kumar","HIII")
print(list)
print(len(list))
print(list[2])
```

```
('anil', 'Kumar', 'HIII')
3
HIII
```

In [125]:

```
list=["anil","Kumar","HIII","HOW do you do","iam fine"]
print(list[2:3])
```

```
['HIII']
```

In [128]:

```
list=["apple","orange","kiwi"]
list.insert(1,"banana")
print(list)
list.append("popaya")
print(list)
```

```
['apple', 'banana', 'orange', 'kiwi']
['apple', 'banana', 'orange', 'kiwi', 'popaya']
```

In [130]:

```
list=["apple","banana","papaya","orange"]
list.remove("apple")
print(list)
list.clear()
print(list)
```

```
['banana', 'papaya', 'orange']
[]
```

In [134]:

```
list=["banana","apple","papaya"]
for i in list:
    print(list)
```

```
['banana', 'apple', 'papaya']
['banana', 'apple', 'papaya']
['banana', 'apple', 'papaya']
```

In [154]:

```
list=["app","app1","app2","app3"]
for i in range(len(list)):
     print(list[i])
```

```
app
app1
app2
app3
```

In [166]:

```
for a in range(2,10,3):
    print(a)
```

```
2
5
8
```

In [ ]:

```
i=1
while i<6:
    print(i)
i += 1
```

In [ ]:

```
def call(x):
    return x
    print(callable(call))
```

In [ ]:

```
def foo():
       pass
    print(type(foo))
    print("foo name attribute: ",foo_name_)
```

In [ ]:

```
class abc:
    def m1(self):
      pass
def_init_(self)
   pass
```

In [ ]:

```
def_init_(self):
    self.a =13
    self.b=15
s = sample()
print(s.a)
```

In [ ]:

```
# Local functions
#Eg1:
def local_function():
 print("This is a local function")
local_function()
```

In [5]:

```
def a():
    def b():
        print("inside b")
        print("inside a")
        b()
    a()
```

In [ ]: