```
In [2]:
```

```
#multiply argument x with y and print the result
mul=lambda x,y:x*y
print('4*5',mul(4,5))
print('8*9',mul(8,9))
print('4*5=',(lambda x,y:x*y)(4,5))
print('8*9=',(lambda x,y:x*y)(8,9))

4*5 20
8*9 72
4*5= 20
8*9= 72

In [3]:
# to find whether the given string starts with a given character
chk1=lambda s,c:True if s.startswith(c) else False
print(chk1('python','p'))
```

True

## In [44]:

```
#to extract year, month, day and time from datetime.
import datetime
dt_now=datetime.datetime.now()
print('----')
date fn=lambda date:date.date()
day_fn=lambda date:date.day
month_fn=lambda date:date.month
year_fn=lambda date:date.year
print("Today's Date",date_fn)
print("Day",day_fn(dt_now))
print("Month", month_fn(dt_now))
print("Year",year_fn(dt_now))
print('----')
time fn=lambda t:t.time()
hour fn=lambda t:t.hour
min_fn=lambda t:t.min
sec_fn=lambda t:t.second
print("time now", time_fn(dt_now))
print("Hour",hour_fn(dt_now))
print("Minutes",min_fn(dt_now))
print("Seconds", sec_fn(dt_now))
```

```
Today's Date <function <lambda> at 0x0000016114021280> Day 19

Month 12

Year 2022

-----
time now 17:29:17.828877

Hour 17

Minutes 0001-01-01 00:00:00

Seconds 17
```

```
In [13]:
# to sort a list of dictionaries based on a given key
#models=[{'make':'Nokia','model':'216','color':'black'},{'make':'MiMax','model':2,'color':'gold'},
# { 'make': 'Samsung', 'model': '7', 'color': 'blue' } ]
models=[{'make':'Nokia','model':'216','color':'black'},{'make':'MiMax','model':2,'color':'gold'},{'make':'MiMax','model':2,'color':'gold'},{'make':'MiMax','model':2,'color':'gold'},
print("original list of dictionaries:")
print(models)
sorted_models=sorted(models,key=lambda d:d['color'])
print("\n sorting the list of dictionaries")
print(sorted_models)
original list of dictionaries:
[{'make': 'Nokia', 'model': '216', 'color': 'black'}, {'make': 'MiMax', 'model': 2, 'co
lor': 'gold'}, {'make': 'Samsung', 'model': '7', 'color': 'blue'}]
 sorting the list of dictionaries
[{'make': 'Nokia', 'model': '216', 'color': 'black'}, {'make': 'Samsung', 'model': '7', 'color': 'blue'}, {'make': 'MiMax', 'model': 2, 'color': 'gold'}]
In [42]:
#qiven a list of strings remove all strings that have the first character as a digit.
l=["hi","1 good ","bad 3445","6 Good Day","Hello","234234"]
print(list(filter(lambda x:False if x[0].isdigit() else True,1)))
['hi', 'bad 3445', 'Hello']
In [29]:
#given a list of numbers find the maximum of the numbers
from functools import reduce
num list=[23,45,12,47,54]
print(reduce(lambda x, y:x if x>y else y,num_list))
54
```

## In [32]:

```
#given a list of tuples remove all the tuples where second element is not the factor of first element
from functools import reduce
lst=[(2,3),(4,2),(6,3),(6,4),(16,4),(64,8)]
print(list(filter(lambda x:True if x[0]%4==0 else False,lst)))
```

```
[(4, 2), (16, 4), (64, 8)]
```