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Write a lambda function to remove punctuation from a string.
Write a lambda function to calculate the absolute value of a number.
Write a lambda function to check if a string contains a certain substring.
Write a lambda function to convert a string to lowercase.
Write a lambda function to check if a number is prime.
Write a lambda function to sort a list in descending order.
Write a lambda function to calculate the standard deviation of a list.
Write a lambda function to filter unique values from a list.
Write a lambda function to convert a list of strings to integers.
Write a lambda function to concatenate two strings.
Write a lambda function to calculate the median of a list.
Write a lambda function to filter words that start with a certain letter from a list of
strings.
Write a lambda function to check if a string is a palindrome.
Write a lambda function to reverse a string.
Write a lambda function to calculate the factorial of a number.
Write a lambda function to calculate the sum of the digits of a number.
```

In [3]:

```
# 1)Write a lambda function to remove punctuation from a string.
import string
remove_punctuation= lambda text: text.translate(str.maketrans("","",string.punctuation))
text="hello world?"
clean_text=remove_punctuation(text)
print(clean_text)
```

```
hello world
```

In [5]:

```
# 2)Write a lambda function to calculate the absolute value of a number.
num=lambda x: abs(x)
x=-44
absolut=num(x)
print(absolut)
```

```
44
```

In [12]:

```
# 3)Write a lambda function to check if a string contains a certain substring.
x="hello world"
y="king"
check_string=lambda x,y: y in x
result=check_string(x,y)
print(result)
```

```
False
```

In [13]:

```
# 4)Write a lambda function to convert a string to lowercase.
lower=lambda x: x.lower()
name="RAMA"
convert_string=lower(name)
print(convert_string)
```

```
rama
```

In [14]:

```
# 5)Write a lambda function to check if a number is prime.
prime=lambda x: n>1 and all(n%i !=0 for i in range(2,n))
n=17
is_prime=prime(n)
print(is_prime)
```

```
True
```

In [15]:

```
# 6)Write a lambda function to sort a list in descending order.
x=[1,22,33,44,86,78,98]
sort=lambda x: x[::-1]
sort_desc=sort(x)
print(sort_desc)
```

```
[98, 78, 86, 44, 33, 22, 1]
```

In [17]:

```
import numpy as np
# 7)Write a lambda function to calculate the standard deviation of a list.
y=[23,44.5,66.10,88.9,34]
std=lambda y: np.std(y)
standard_deviation=std(y)
print(standard_deviation)
```

```
23.576344076213346
```

In [18]:

```
# 8)Write a lambda function to filter unique values from a list.
z=[1,1,2,3,4,5,5,6,7,8,8,9,9]
unique=lambda z: list(set(z))
unique_values=unique(z)
print(unique_values)
```

```
[1, 2, 3, 4, 5, 6, 7, 8, 9]
```

In [19]:

```
# 9)Write a lambda function to convert a list of strings to integers.
lst=["1","2","3","4","5"]
l=lambda lst: [int(x) for x in lst]
convert_list=l(lst)
print(convert_list)
```

```
[1, 2, 3, 4, 5]
```

In [22]:

```
# 10)Write a lambda function to concatenate two strings
first="Rama Krishna"
last="Killi"
full_name=lambda first,last: first+" "+last
full=full_name(first,last)
print(full)
```

```
Rama Krishna Killi
```

In [23]:

```
# 11)Write a lambda function to calculate the median of a list.
ls=[23,44.44,55.6,78.9,100.1,88.6]
med=lambda ls: np.median(ls)
median=med(ls)
print(median)
```

```
67.25
```

In [34]:

```
# 12)Write a lambda function to filter words that start with a certain letter from a list
words = ["apple", "graphs", "horse", "bike"]
letter = 'a'
filter_words_starting_with = lambda words, letter: list(filter(lambda word: word.startswi
filtered_words = filter_words_starting_with(words, letter)
print(filtered_words)
```

```
['apple']
```

In [42]:

```
# 13)Write a lambda function to check if a string is a palindrome.
x=121
con=str(x)
reverse=con[::-1]
pali=lambda con,reverse: con==reverse
palindrome=pali(con,reverse)
print(palindrome)
```

```
True
```

In [43]:

```
# 14)Write a lambda function to reverse a string.
name="Python"
rever=lambda name: name[::-1]
revers_name=rever(name)
print(revers_name)
```

```
nohtyP
```

In [50]:

```
# 15)Write a lambda function to calculate the factorial of a number.
from functools import reduce
fact=reduce(lambda x,y: x*y,range(1,n-1))
x=int(input("Enter the number "))
print(fact)
```

```
Enter the number 12
1307674368000
```

In [80]:

```
# 16)Write a lambda function to calculate the sum of the digits of a number.
n=2345678
su=lambda n: sum(ind(d) for d in str(n))
count_dig=lambda n: len(str(n))
dig=count_dig(n)
print(dig)
```

```
7
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In [ ]:

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In [ ]: