In [9]:

```
# 1)Write a lambda function to calculate the square of a given number.
square=lambda x:x**2
result=square(5)
print(result)
```

```
25
```

In [11]:

```
# 2)Write a lambda function to find the maximum value in a list.
find=lambda x:max(x)
x=[2,3,4,5,6]
res=find(x)
print(res)
```

```
6
```

In [12]:

```
# 3)Write a lambda function to calculate the mean of a list.
mean=lambda x: sum(x)/len(x)
x=[1,2,3,4,5,6]
me=mean(x)
print(me)
```

```
3.5
```

In [13]:

```
# 4)Write a lambda function to convert a list of strings to title case.
name=lambda string: [word.title() for word in string]
string=["hello","cheddi","buddy"]
title=name(string)
print(title)
```

```
['Hello', 'Cheddi', 'Buddy']
```

In [19]:

```
# 5)Write a lambda function to filter words that contain a certain letter from a list of
string_name=["python","C","C++","JAVA"]
letter='p'
filt=list(filter(lambda string_name: letter in string_name,string_name))
print(filt)
```

```
['python']
```

In [20]:

```
# 6)Write a lambda function to calculate the inverse of a number.
inverse=lambda x: 1/x
x=2
calculate=inverse(x)
print(calculate)
```

```
0.5
```

In [29]:

```
# 7)Write a lambda function to sort a list based on the sum of the digits of the numbers.
sort=lambda x: sorted(x)
x=[23,66,78,33,99,55]
l=sort(x)
li=sum(sort(x))
print(li)
print(l)
```

```
354
[23, 33, 55, 66, 78, 99]
```

In [26]:

```
# 8)Write a lambda function to calculate the natural logarithm of a number.
import numpy as np
log= lambda x: np.log(x)
x=10
l=log(x)
print(l)
```

```
2.302585092994046
```

In [34]:

```
# 9)Write a lambda function to check if a number is divisible by another number.
is_divisble= lambda num,divide: num%divide==0
num=int(input("Enter the number :"))
divide=int(input("Enter the number :"))
if is_divisble(num,divide):
    print(f"{num} is divisibe by {divide}")
else:
    print(f"{num} is cannot divisibe by {divide}")
```

```
Enter the number :12
Enter the number :5
12 is cannot divisibe by 5
```

In [37]:

```
# 10)Write a lambda function to convert a list of integers to hexadecimal.
he=lambda lst: list(map(hex,lst))
lst=[70,99,88,66]
hex_list=he(lst)
print(hex_list)
```

```
['0x46', '0x63', '0x58', '0x42']
```

In [ ]: