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Class:2nd B.SC Chemistry  
Assessment:2  
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Ques:1.a)

```
import math
print(math.sin(math.pi/3))
print(math.tan(math.pi/3))
print(math.cos(math.pi/6))
```

```
0.8660254037844386
1.7320508075688767
0.8660254037844387
```

b)

```
def myfunc(x,y):
    return lambda x,y:x+y
adder=lambda x,y:x+y
print(adder(1,2))
```

```
3
```

c)

```
def fdsum(n):
    sum=0
    x=1
    while x <=n :
        sum =sum + x
        x = x+1
    return sum
n=int(input("Enter a natural number,n: "))
print("Sum of first n i.e.,",n,"natural numbers",fdsum(n))
```

```
Enter a natural number,n: 6
Sum of first n i.e., 6 natural numbers 21
```

Ques:2. a)

```
from statistics import mean
def myMean(my_list):
    return mean(my_list)
my_list=[3.5,7.3,9.4,6.6,3.2,8.3]
```

```
average= myMean(my_list)
print("Original list: ",my_list)
print("Mean of the list: ",average)

Original list: [3.5, 7.3, 9.4, 6.6, 3.2, 8.3]
Mean of the list: 6.383333333333334
```

b)

```
def myname(firstname,lastname):
    return firstname + lastname
firstname=input("Enter ur first name: ")
lastname=input("Enter ur last name: ")
print("My name is ",myname(firstname,lastname))

Enter ur first name: Princy
Enter ur last name: Punitha
My name is PrincyPunitha
```

Ques:4

```
with open("myfile.txt","w")as myfile:
    myfile.write("This is my test.file.\n")
    myfile.write("I am punitha.\n")
    myfile.write("I am from the department of chemistry.\n")
with open("myfile.txt")as f:
    content=f.read()
print(content)

This is my test.file.
I am punitha.
I am from the department of chemistry.
```

```
with open("myfile.txt","r")as myfile:
    for line in myfile:
        print(line,end="")

This is my test.file.
I am punitha.
I am from the department of chemistry.
```

```
count=0
with open("myfile.txt","r")as myfile1:
    for line in myfile1:
        count+=1
        print(line,end="")
print('This file contains ',count,'lines')
```

```
This is my test.file.  
I am punitha.  
I am from the department of chemistry.  
This file contains 3 lines
```

```
with open("myfile.txt","r")as myfile:  
    for line in myfile:  
        line1=line.upper()  
        print(line1,end="")
```

```
THIS IS MY TEST.FILE.  
I AM PUNITHA.  
I AM FROM THE DEPARTMENT OF CHEMISTRY.
```

```
with open("myfile.txt","a")as myfile:  
    myfile.write("I am from thathaiengarpet.\n")  
    myfile.close()  
with open("myfile.txt")as f:  
    content=f.read()  
print(content)
```

```
This is my test.file.  
I am punitha.  
I am from the department of chemistry.  
I am from thathaiengarpet.
```

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