Practical

(a) Write a python script to demonstrate Global Keyword.

```
sample="yug"

def getname():
    sample="yatri" #local
    print("inside function:", sample)

getname()

print("outside function:", sample) #global
```

```
==== RESTART: C:/Users/stu
inside function: yatri
outside function: yug
>>>
```

```
sample="yug"

def getname():
    global sample
    sample="yatri" #local
    print("inside function:", sample)

getname()

print("outside function:", sample) #global
```

```
inside function: yatri
outside function: yatri
>>>
```

(b) Write a python script to create User defined module.

k.py - C:/Users/student/AppData/Local/Prograr

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```
#module creation
def add(number1,number2):
    result=number1+number2
    return result
```

j.py - C:/Users/student/AppData/Local/Program

File Edit Format Run Options Window H

```
import k
print("result:", k.add(11,22))
```

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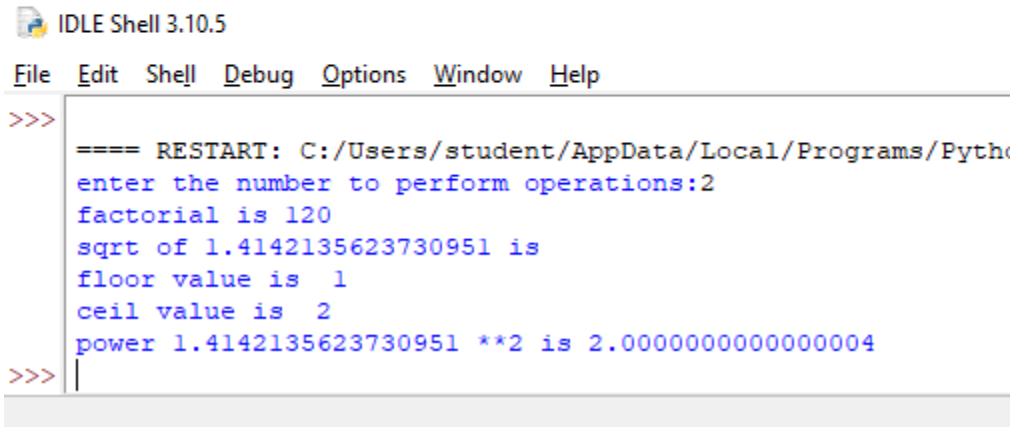
```
>>>
==== RESTART: C:/Users/student,
result: 33
>>>
```

(c) Write a python script to demonstrate Math module with its functions.

```
import math

x=int(input("enter the number to perform operations:"))
print("factorial is", math.factorial(5))
x=math.sqrt(x)
print("sqrt of {} is " .format(x))
print("floor value is ", math.floor(x))
print("ceil value is " , math.ceil(x))

print("power {} **2 is {}".format(x,math.pow(x,2)))
```



(d) Write a python script to demonstrate random module with its functions.

k.py - C:/Users/student/AppData/Local/Progra

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```
import random

r1=random.randint(5,15)
print("random number is ",r1)

r2=random.random()
print=("random number is ", r2)
```

IDLE Shell 3.10.5

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```
>>>
    ==== RESTART: C:/Users/student
    random number is  13
>>>
```

```
import random

list=[11,22,33,"yug","yatri"]
print("list is:",list)

print("random numer :", random.choice(list))
```

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```
    ==== RESTART: C:/Users/student/AppData/Lo
    list is: [11, 22, 33, 'yug', 'yatri']
    random numer : 11
>>>
```

```
import random

list=[11,22,33,"yug","yatri"]
print("list is:",list)

random.shuffle(list)
print("random numer after shuffle :", list)
```

IDLE Shell 3.10.5

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```
    ==== RESTART: C:/Users/student/AppData/Local/Programs/Pytho
    list is: [11, 22, 33, 'yug', 'yatri']
    random numer after shuffle : ['yatri', 11, 22, 'yug', 33]
>>>
```

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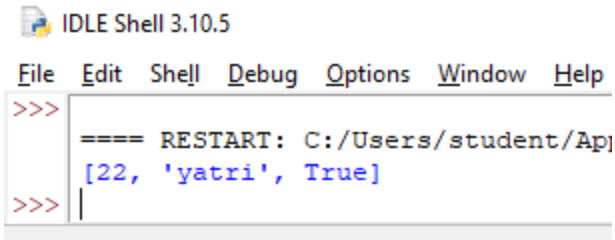
```
from random import *

mygrp=[11,22,"yug", "yatri" ,True]
print(sample(mygrp,3))
```




```
import random

print("diff number")
for i in range(5):
    print(random.randint(1,100))

print("same numbers")
for i in range(5):
    random.seed(1)

    print(random.randint(1,100))
```