LAB ACTIVITY 5(i):

Python Modules and Exception Handling

**Learning Outcomes:**

By the end of this laboratory session, you should be able to:

1. Build Python simple program using Python standard modules

**Hardware/Software:** Computer, Phyton 3.5 or above.

**Activity 5A**

Activity Outcome**:** Creating and calling a module.

Procedure:

**Step 1:** Open Code editor and type the code based on the following code :

def greeting(name):  
   print("Hello, " + name)

**Step 2:** Save this code in a file named cthmodule.py.



**Step 3:** Open a new python file and type the code based on the following code :

import cthmodule

cthmodule.greeting(“Irfan Wafiy")

**Step 4:** Save, compile and run the program. Save the program as Act5a.py. Display the output in the area below.

**Output:**



**Activity 5B**

Activity Outcome: Creating and calling a module.

Procedure:

**Step 1:** Open Code editor and type the code based on the following code :

def print\_func( par ):

print "Hello : ", par

return

**Step 2:** Save this code in a file named support.py.

**Step 3:** Open a new python file and type the code based on the following code :

# Import module support  
import support

# Now you can call defined function that module as follows  
support.print\_func(“Student Class Python")

**Step 4:** Save, compile and run the program. Save the program as Act5b.py. Display the output in the area below.

**Output:**



**Activity 5C**

Activity Outcome: Creating and calling a module.

Procedure:

**Step 1:** Open Code editor and type the code based on the following code :

def evaluate(num1):

if(num1%2==0):

print(str(num1)+" is an EVEN number.")

else:

print(str(num1)+" is an ODD number.")

**Step 2:** Save this code in a file named modEvenOdd.py.

**Step 3:** Open a new python file and type the code based on the following code :

import modEvenOdd

no=int(input("Enter one value: "))

modEvenOdd.evaluate(no)

**Step 4:** Save, compile and run the program. Save the program as Act5c.py. Display the output in the area below.

**Output:**





**Activity 5D**

Activity Outcome: Creating and calling a module.

Procedure:

**Step 1:** Open Code editor and type the code based on the following code :

def tambah(no1,no2,no3):

return (no1+no2+no3)#you can return statement

def purata(no1,no2,no3):

avg=(no1+no2+no3)/3

return avg #you can return value

**Step 2:** Save this code in a file named modSumAvg.py.

**Step 3:** Open a new python file and type the code based on the following code :

import modSumAvg as sa

num1=int(input("Enter 1st number: "))

num2=int(input("Enter 2nd number: "))

num3=int(input("Enter 3rd number: "))

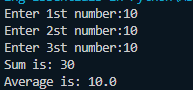
hasil=sa.tambah(num1,num2,num3)

print("Sum is: "+str(hasil))

print("Average is: "+str(sa.purata(num1,num2,num3)))

**Step 4:** Save, compile and run the program. Save the program as Act5d.py. Display the output in the area below.

**Output:**



**Activity 5E**

Activity Outcome : Build Python simple program using Python math modules

Procedures:

**Step 1:** Open code editor and type the following code:

# Import math Library  
**import math**  
  
#Return the value of 9 raised to the power of 3  
print(**math.pow**(9, 3))

**Step 2:**  Save, compile and run the program. Save the program as Act5e.py. Display the output in the area below.

**Output:**



**Activity 5F**

Activity Outcome : Build Python simple program using Python math modules

Procedures:

**Step 1:** Open code editor and type the following code:

# Import math Library  
**import math**  
# Print the value of pi (The math.pi constant)  
print (**math.pi**)

**Step 2:**  Save, compile and run the program. Save the program as Act5f.py. Display the output in the area below.

**Output:**



**Activity 5G**

Activity Outcome : Build Python simple program using Python math modules

Procedures:

**Step 1:** Open code editor and type the following code:

‘’’ Create a simple program to calculate area and circumference of a circle by using the pi math library.

‘’’

import math

rad=int(input("Enter circle radius: "))

area=**math.pi**\*rad\*rad

circumference=**math.pi**\*(rad\*2)

print("Area of circle="+str(format(area,'.2f')))

print("Circumference of circle="+(format(circumference,'.2f')))

**Step 2:**  Save, compile and run the program. Save the program as Act5g.py. Display the output in the area below.

**Output:**



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**Activity 5H**

Activity Outcome : Build Python simple program using Python random modules

Procedures:

**Step 1:** Open code editor and type the following code:

#example 1:Sequence list

**import random**  
  
mylist = ["durian","harumanis","ciku"]  
print(**random.choice(mylist)**)

#example 2:Sequence str

x = "POLITEKNIK METrO TASEK GELUGOR"

print(**random.choice(x)**)

**Step 2:**  Save, compile and run the program. Save the program as Act5h.py. Display the output in the area below.

**Output:**





**Activity 5I**

Activity Outcome : Build Python simple program using Python platform modules

Procedures:

**Step 1:** Open code editor and type the following code:

# Python program to display platform processor

# import module

**import** **platform**

# to display platform processor

print('Platform processor:', **platform.processor()**)

# to display platform architecture

print('Platform architecture:', **platform.architecture()**)

# to display machine type

print('Machine type:', **platform.machine()**)

**Step 2:**  Save, compile and run the program. Save the program as Act5i.py. Display the output in the area below.

**Output:**

