Acssignment - 3

i) Student Management System (Function - Based)

```
students = [ ]

def add_ student (roll, name);
   students. append ([roll , name ])

def modify_student (roll, new-name):
     for sin students:
     if s[0] = = roll :
        s [1] = new_name

def display _students ( ) :
  for s in students :
  print ("Roll :", s[0], "Name :", s[1])

add_student (1, "Amit")
add_student( 2, "Neha")
modify_student (1, "Rahul")
display _ students()
```

ii) College Management System (Module Based)

i) department .py

```
def add (name):
print ("Department Added :", name)
```

ii) mainpy

```
import department

department.add ("Computer")
```

3) Electronics Tools Management System (Package - Based

i) inventory.py

```
def add_tool (name):
print ("Tool Added :", name)
```

ii) pricing.py

```
def price_tool (name, price):
print ("Tool :", name, "Price :", price)
```

iii) main.py

```
from tools_package.inventory import add_too
from tools_package.pricing import price_tool

add_tool ("Multimeter")
price_tool ("Multimeter", 1500)
```

4) Document-Organizer (Numpy Based)

```
import numpy as np
docs = np.array ([10, 20, 30, 40, 50])
print (" Total size:, np.sum(docs))
print ("Average size:, np.mean(docs))
print ("Max size:, np.max(docs))
Print ("Min size :, np. min(docs))
```

5) Calculator Application (Class Based)

```
class Calculator :

 def _ init _ (self, a, b):
  self.a =a
  self.b = b

 def add (self):
   return self.a + self.b

 def sub (self):
   return self.a +- self.b

c = calculator (10, 5)

print ("Addition:", c.add())
print ("Subtraction:", c.sub())
```