## ***ASSIGNMENT 5***

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DOMAIN:DATA SCIENCE

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DJ11 FILE

```
class calculate:
   a = int(input("enter the first number"))
   b = int(input("enter second number"))
   c = 0

   def add(me):
      print(me.a)
      print(me.b)
      me.c = me.a + me.b
      print(me.c)

obj = calculate()
obj.add()
```

```
enter the first number23
enter second number12
23
12
35
```

---

```
class calculate:
   a = int(input("enter the first number"))
   b = int(input("enter second number"))
   c = 0

   def add(me):
      print(me.a)
      print(me.b)
      me.c = me.a + me.b
      print(me.c)

   def subt(me):
      print(me.a)
```

```
enter the first number34
enter second number56
34
56
90
34
56
-22
```

```
        print(me.b)
        me.c = me.a - me.b
        print(me.c)


obj = calculate()
obj.add()
obj.subt()
```

---

```
class calculate:
    a = int(input("enter the first number"))
    b = int(input("enter second number"))
    c = 0

    def add(me):
        print(me.a)
        print(me.b)
        me.c = me.a + me.b
        print(me.c)

    def subt(me):
        print(me.a)
        print(me.b)
        me.c = me.a - me.b
        print(me.c)

    def mult(me):
        print(me.a)
        print(me.b)
        me.c = me.a * me.b
        print(me.c)

    def divide(me):
        print(me.a)
        print(me.b)
        me.c = me.a / me.b
```

```
enter the first number67
enter second number32
67
32
99
67
32
35
67
32
2144
67
32
2.09375
```

```
        print(me.c)


obj = calculate()
obj.add()
obj.subt()
obj.mult()
obj.divide()
```

---

```
class calculate:
    a = int(input("enter the first number"))
    b = int(input("enter second number"))
    c = 0

    def add(me):
        print(me.a)
        print(me.b)
        me.c = me.a + me.b
        print(me.c)

    def subt(me):
        print(me.a)
        print(me.b)
        me.c = me.a - me.b
        print(me.c)

    def mult(me):
        print(me.a)
        print(me.b)
        me.c = me.a * me.b
        print(me.c)

    def divide(me):
        print(me.a)
        print(me.b)
        me.c = me.a / me.b
        print(me.c)
```

```
enter the first number12
enter second number6
1. to perform addition press 1
2. to perform subtraction press 2
3. to perform multiplication press 3
4. to perform division press 4
enter your choice1
12
6
18
```

```
enter the first number12
enter second number6
1. to perform addition press 1
2. to perform subtraction press 2
3. to perform multiplication press 3
4. to perform division press 4
enter your choice2
12
6
6
```

```
obj = calculate()
print("1. to perform addition press 1")
print("2. to perform subtraction press 2")
print("3. to perform multiplication press 3")
print("4. to perform division press 4")
opt = int(input("enter your choice"))
if (opt == 1):
   obj.add()
elif (opt == 2):
   obj.subt()
elif (opt == 3):
   obj.mult()
elif (opt == 4):
   obj.divide()
else:
   print("invalid option")
```

```
enter the first number12
enter second number6
1. to perform addition press 1
2. to perform subtraction press 2
3. to perform multiplication
press 3
4. to perform division press 4
enter your choice4
12
6
2
```

---

```
class contacts:
   name = input("enter your name")
   ph = int(input("enter the phone number"))

   def save(me):
      print(me.name)
      print(me.ph)

class whatsapp:
   name = input("enter your name")
   ph = int(input("enter the phone number"))
   msg = input("type the message")

   def send(me):
      print(me.name)
      print(me.ph)
      print(me.msg)

obj1 = contacts()
```

```
enter your name prathiksha
enter the phone number332
enter your name arya
enter the phone number234
type the messagehi
prathiksha
332
arya
234
hi
```

```
obj1.save()
obj2 = whatsapp()
obj2.send()
```

---

DJ11A

```
class addition:
   a = int(input("enter the first number"))
   b = int(input("enter second number"))
   c = 0

   def add(me):
      print(me.a)
      print(me.b)
      me.c = me.a + me.b
      print(me.c)

class subtraction:
   a = int(input("enter the first number"))
   b = int(input("enter second number"))
   c = 0

   def subt(me):
      print(me.a)
      print(me.b)
      me.c = me.a - me.b
      print(me.c)
obj1 = addition()
obj1.add()
obj2 = subtraction()
obj2.subt()
```

```
enter the first number23
enter second number21
enter the first number12
enter second number12
23
21
44
12
12
0
```

```
class addition:
    a = int(input("enter the first number"))
    b = int(input("enter second number"))
    c = 0

    def add(me):
        print(me.a)
        print(me.b)
        me.c = me.a + me.b
        print(me.c)


class subtraction:
    a = int(input("enter the first number"))
    b = int(input("enter second number"))
    c = 0

    def subt(me):
        print(me.a)
        print(me.b)
        me.c = me.a - me.b
        print(me.c)


class multiply:
    a = int(input("enter the first number"))
    b = int(input("enter second number"))
    c = 0

    def mult(me):
        print(me.a)
        print(me.b)
        me.c = me.a * me.b
        print(me.c)


class divide:
    a = int(input("enter the first number"))
```

```
enter the first number23
enter second number34
enter the first number56
enter second number89
enter the first number12
enter second number6
enter the first number12
enter second number12
23
34
57
56
89
-33
12
6
72
12
12
1.0
```

```
    b = int(input("enter second number"))
    c = 0

    def divi(me):
        print(me.a)
        print(me.b)
        me.c = me.a / me.b
        print(me.c)
obj1 = addition()
obj1.add()
obj2 = subtraction()
obj2.subt()
obj3 = multiply()
obj3.mult()
obj4 = divide()
obj4.divi()



class addition:
    a = int(input("enter the first number"))
    b = int(input("enter second number"))
    c = 0

    def add(me):
        print(me.a)
        print(me.b)
        me.c = me.a + me.b
        print(me.c)


class subtraction:
    a = int(input("enter the first number"))
    b = int(input("enter second number"))
    c = 0

    def subt(me):
        print(me.a)
```

```
enter the first number enter the first number12
enter second number12
enter the first number12
enter second number12
enter the first number12
enter second number12
enter the first number12
enter second number12
1. to perform addition press 1
2. to perform subtraction press 2
3. to perform multiplication press 3
4. to perform division press 4
enter your choice1
12
12
24
enter second number12
enter the first number12
enter second number12
enter the first number12
enter second number12
enter the first number12
enter second number12
1. to perform addition press 1
2. to perform subtraction press 2
3. to perform multiplication press 3
4. to perform division press 4
enter your choice 2
```

```
        print(me.b)
        me.c = me.a - me.b
        print(me.c)


class multiply:
    a = int(input("enter the first number"))
    b = int(input("enter second number"))
    c = 0

    def mult(me):
        print(me.a)
        print(me.b)
        me.c = me.a * me.b
        print(me.c)


class divide:
    a = int(input("enter the first number"))
    b = int(input("enter second number"))
    c = 0

    def divi(me):
        print(me.a)
        print(me.b)
        me.c = me.a / me.b
        print(me.c)


print("1. to perform addition press 1")
print("2. to perform subtraction press 2")
print("3. to perform multiplication press 3")
print("4. to perform division press 4")
opt = int(input("enter your choice"))
if (opt == 1):
    obj1 = addition()
    obj1.add()
elif (opt == 2):
```

```
0
enter the first number12
enter second number12
enter the first number12
enter second number12
enter the first number12
enter second number12
enter the first number12
enter second number12
1. to perform addition press 1
2. to perform subtraction press 2
3. to perform multiplication press 3
4. to perform division press 4
enter your choice3
12
12
144
```

```
    obj2 = subtraction()
    obj2.subt()
elif (opt == 3):
    obj3 = multiply()
    obj3.mult()
elif (opt == 4):
    obj4 = divide()
    obj4.divi()
else:
    print("invalid option")
```

---

DJ12

```
class calculate:
    a = int(input("enter the first number"))
    b = int(input("enter second number"))
    c = 0

    def __init__(me):
        print(me.a)
        print(me.b)
        me.c = me.a + me.b
        print(me.c)
obj = calculate()
```

```
enter the first number 23
enter second number 34
23
34
57
```

---

```
class highest:
    a = int(input("enter the first number"))
    b = int(input("enter second number"))

    def __init__(me):
        if (me.a > me.b):
            print("first number is highest")
        else:
            print("second number is highest")

obj = highest()
```

```
enter the first number12
enter second number 24
second number is highest


enter the first number 34
enter second number 4
first number is highest
```

```
# constructor in python ---USE __init__
class addition:
    a = int(input("enter first number"))
    b = int(input("enter second number"))
    z = a + b

    def __init__(me):
        print(me.a)
        print(me.b)
        print(me.z)

obj1 = addition()
```

```
enter first number23
enter second number34
23
34
57
```

---

```
class addition:
    a = int(input("enter first number"))
    b = int(input("enter second number"))
    z = a + b

    def __init__(me):
        print(me.a)
        print(me.b)
        print(me.z)

    def __del__(me):
        print("memory cleared")
obj1 = addition()
```

```
enter first number56
enter second number67
56
67
123
```

---

```
class student:
    def __init__(me, name):
     print(name)
obj1 = student('sanjay')
```

```
sanjay
memory cleared
```

---

```
class student:
    def __init__(me, name, age):
        print(name)
```

```
sanjay
19
```

```
    print(age)
obj1 = student('sanjay', 19)
```

---

```
class student:
   def __init__(me, name, age, course):
      print(name)
      print(age)
      print(course)


obj1 = student('sanjay', 19, 'MBA')
```

```
sanjay
19
MBA
```

---

```
class student:


   def __init__(me, name, age, course, cname):
      print("student name= ", name)
      print("student age= ", age)
      print("student course= ", course)
      print("college name= ", cname)

obj1 = student('sanjay', 19, 'MBA', 'CMR')
```

```
student name=  sanjay
student age=  19
student course=  MBA
college name=  CMR
```

---

```
#parameters and create object
class student:


   def __init__(me, name):
      print(name)


obj1 = student('sanjay')
obj2 = student('pooja')
```

```
sanjay
pooja
```

---

```
class cmr:


   def __init__(me, name, age, course):
      print("student name= ", name)
```

```
student name=  sanjay
student age=  19
student course=  MBA
```

```
        print("student age= ", age)
        print("student course= ", course)

obj1 = cmr('sanjay', 19, 'MBA')
obj2 = cmr('pooja', 22, 'MCA')
obj3 = cmr('Harshitha', 20, 'BCOM')
```

```
student name=  pooja
student age=  22
student course=  MCA
```

```
student name=  Harshitha
student age=  20
student course=  BCOM
```

---

```
class cmr:
    def __init__(me, name, age, course):
        print("student name= ", name)
        print("student age= ", age)
        print("student course= ", course)


class pes:
    def __init__(me, name, age, course):
        print("student name= ", name)
        print("student age= ", age)
        print("student course= ", course)


print("CMR college Students List")
obj1c = cmr('sanjay', 19, 'MBA')
obj2c = cmr('pooja', 22, 'MCA')
obj3c = cmr('Harshitha', 20, 'BCOM')
print("PES college Students List")
obj1p = pes('Raghu', 21, 'BE')
obj2p = pes('Sham', 22, 'MTech')
obj3p = pes('Satish', 20, 'BBM')
```

```
CMR college Students List
student name=  sanjay
student age=  19
student course=  MBA
student name=  pooja
student age=  22
student course=  MCA
student name=  Harshitha
student age=  20
student course=  BCOM
PES college Students List
student name=  Raghu
student age=  21
student course=  BE
student name=  Sham
student age=  22
student course=  MTech
student name=  Satish
student age=  20
student course=  BBM
```