Assignment2

1. **Execute the programs which are discussed on Day 2?**

example1.py

```
#basic calculator
first=input("enter first number")
second=input("enter second number")
operator=input("enter operator(+,-,*,/,%)"
first=int(first)
second=int(second)
if operator=="+":
        print(first+second)
elif operator=="-":
        print(first-second)
elif operator=="*":
        print(first*second)
elif operator=="/":
        print(first/second)
elif operator=="%":
        print(first%second)
else:
        print("Invalid operator")
```

example2.py

```
students=["sai","priya","darshini"]
for student in students:
        if student == "priya":
                break;
        print(student)

students=["sai","priya","darshini"]
for student in students:
        if student == "priya":
                continue;
        print(student)

marks=(95,98,97,97)
print(marks.count(97))

marks=("english":100,"maths":80)
print(marks["maths"]);
```

```
#function
#max num
def max(a,b):
	if a>=b:
		return a
	else:
		return b

a=2
b=4
print(max(a,b))


#call by value
def check(str):
	str="hello world";
	print(str)

name="hello"
check(name)
print("outer----------"+name)


#call by reference
def add(list)
	list.append(50)
	print(list)

mylist=[10,20]
add(mylist)
print("outer-----")
print(mylist)
```

Flask

app.py

```
from flask import Flask
from flask import redirect,url_for
app=Flask(_name_)
```

```
@app.route("/")
def home():
        return "<h1>Welcome to Flask"</h1>"
@app.route("/courses")
def courses():
        return "<h1>Welcome to courses</h1>"
@app.route("/hello")
def hello():
        return "<h1>Welcome to debug1</h1>"

@app.route('/<name>')
def name(name):
        return f"hello{name}"

@app.route("/admin")

def admin():
        return redirect("/")
if __name__=='__main__':
        app.run(debug=True)
```

2. Practice python in idle?

Python Program to find the area of triangle

```
a = 5
b = 6
c = 7

# Uncomment below to take inputs from the user
a = float(input('Enter first side: '))
b = float(input('Enter second side: '))
c = float(input('Enter third side: '))

# calculate the semi-perimeter
s = (a + b + c) / 2
```

```
# calculate the area
area = (s*(s-a)*(s-b)*(s-c)) ** 0.5
print('The area of the triangle is %0.2f' %area)
```