

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)
```