Assignment-1

#1. write a python program to design simple calculator for the operators.

```
a=int(input("enter val1:"))
b=int(input("enter val2"))
op=input("enter operator")
if op=='+':
    print(a+b)
elif op=='-':
    print(a-b)
elif op=='*':
    print(a*b)
elif op=='/':
    print(a/b)
elif op=='%':
    print(a%b)
elif op=='**':
    print(a**b)
elif op=='//':
    print(a//b)
else:
    print("enter valid operator")
```

#2. write a python program to calculate simple interest

```
p=int(input("enter principle"))
t=int(input("enter time"))
r=float(input("enter rate"))
si=(p*t*r)/100
print("simple interest",si)
```

3) write a python program to calculate area of a circle.

```
r=int(input("enter radius"))
pi=3.14
print("Area of a circle",(pi*r**2))
```

#4. write a python program to calculate area of triangle.

```
b=int(input("enter base:"))
h=int(input("enter height"))
print("Area of triangle",0.5*b*h)
```

#5. write a python program to temperature in celsius to Fahrenheit

```
c=int(input("enter temperature in celsius"))
print("temperature.
Fahrenheit=",(c*9/5)+32,"F")
```

#6. write a python program to calculate area of rectangle

```
l=int(input("enter length:"))
b=int(input("enter breadth"))
print("Area of rectangle=",l*b).
```

#-7. write a python program to calculate perimeter of a square

```
s=int(input("enter radius"))
p1=3.14
print("perimeter of square",4*s)
```

8. write a python program to calculate circumference of a circle

```
r=int(input("enter radius"))
p1=3.14
print("circumference of circle",2*p1*r)
```

9. write a python program to swap two numbers.

```
a=int(input("enter val 1"))
b=int(input("enter val 2"))
print("before swapping a=",a,b=b)
a=a+b
b=a-b
a=a-b
print("after swapping a=",a,b=b)
```