Assignment-1

1. Write a python program to design (simple) 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(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 = (int) 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 circle:', (pi*r**2))
```

4. Write a python program to calculate area of a 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 in fahrenheit =', ((c*9/5)+32))
```

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.

```
c = int(input('enter side:'))
print('Perimeter of square:', 4*c)
```

3. Write a python program to calculate circumference of a circle.

```
r = int(input('enter radius:'))

pi = 3.14

print('Circumference of circle:', 2*pi*r)
```

4. Write a python program to swap two numbers

```
a = int(input('enter val1:'))

b = int(input('enter val2:'))

print('Before swapping a=', a, 'b=', b)

a = a + b

b = a - b

a = a - b

print('After swapping a=', a, 'b=', b)
```