

Assignment : 1

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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 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 Fahrenheit =', (C*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 side:'))
print('perimeter of Square:', 4*s)
```


8) Write a python program to calculate circumference of a circle?

```
-ce of a circle?  
→ r = int(input('enter radius:'))  
pi = 3.14  
print('circumference of circle is: 2*pi*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)
```