

Assignment - 2



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Q. Write a python program to design simple calculator for operations
+(addition), -(subtraction), *(Multiplication), /(division),
%(Modulus), **(exponent), //(Floor division)

→

```
print ("1. Addition")
print ("2. Subtraction")
print ("3. Multiplication")
print ("4. Division")
print ("5. Modulus")
print ("6. exponent")
print ("7. Floor division")
choice = int (input ("Enter your choice :"))
if (choice >= 1 and choice <= 7):
    print ("Enter two numbers :")
    num1 = int (input())
    num2 = int (input())
    if choice == 1:
        res = num1 + num2
        print ("Result = ", res)
    elif choice == 2:
        res = num1 - num2
        print ("Result = ", res)
```

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```
elif choice == 3 :
```

```
    res = num1 * num2
```

```
    print ("Result = ", res)
```

```
elif choice == 4 :
```

```
    res = num1 / num2
```

```
    print ("Result = ", res)
```

```
elif choice == 5 :
```

```
    res = num1 % num2
```

```
    print ("Result = ", res)
```

```
elif choice == 6 :
```

```
    res = num1 ** num2
```

```
    print ("Result = ", res)
```

```
elif choice == 7 :
```

```
    res = num1 // num2
```

```
    print ("Result = ", res)
```

```
else :
```

```
    print ("Wrong input ..!!")
```



2) Write a python program to calculate simple interest.

→

```
P = float(input("Enter the principal amount:"))  
T = float(input("Enter the number of years:"))  
R = float(input("Enter the rate of interest:"))  
SI = (P * T * R) / 100  
print("Simple Interest: {}".format(SI))
```

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

→

```
PI = 3.14  
radius = float(input("please Enter the radius of  
a circle:"))  
area = PI * radius * radius  
print("area of circle = %.2f" % area)
```

4) Write a program to calculate area of a triangle.

→

```
a = float(input("Enter first side:"))  
b = float(input("Enter second side:"))  
c = float(input("Enter third side:"))
```

Siddhi

calculate the semi-perimeter

$$s = (a+b+c)/2$$

calculate the area

$$\text{area} = (s * (s-a) * (s-b) * (s-c))^{0.5}$$

print('The area of the triangle is
%0.2f'% area)

5) Write a python program to convert temperature in celsius to Fahrenheit

→

$$\text{Celsius} = 37.5$$

$$\text{Fahrenheit} = (\text{Celsius} * 1.8) + 32$$

print('%0.1f degree Celsius is equal to
%0.1f degree Fahrenheit'%
(Celsius, Fahrenheit))

6) Write a python program to calculate area of rectangle

→

length = float(input('Enter the length of
a Rectangle:'))

width = float(input('Enter the width of
a Rectangle:'))

calculate the area

area = length * width

print('The area of a Rectangle = ', area)

7) Write a python program to calculate perimeter of a square.

→

```
S = int(input('Enter the side:'))
```

```
area = S * S
```

```
perimeter = 4 * S
```

```
print('Area of Square: ', area)
```

```
print('Perimeter of Square: ', perimeter)
```

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

→

```
radius = float(input('Enter the radius of the circle:'))
```

```
circumference = 2 * math.pi * radius
```

```
print('Circumference of circle: %.2f' % circumference)
```