Coursework Examples

1- Create a function that helps us print the calculation of square.

2- Create a function that allows us to return the calculation of square.

```python
def square(x):
    return x*x


print(square(2))
```
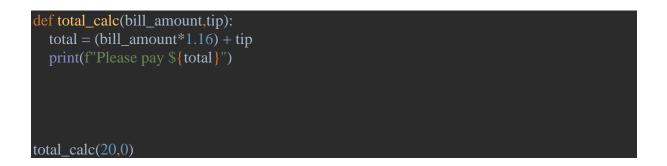
3- Create a simple function that finds the Area of the Rectangle by giving the length and the Breadth.

```python
def Rectangle(length,breadth):
    return length*breadth


print(Rectangle(10,5))
```

4- Create A simple Python function to check whether a number is even or odd.

```python
def evenOdd(x):
    if (x % 2 == 0):
        print("even")
    else:
        print("odd")


# Driver code to call the function
a=int(input('enter the number'))
evenOdd(a)
```

5- Create a function that helps us print the calculated and total amount to be paid at a restaurant. With tax and then with the tip if you wish to pay.

```python
def total_calc(bill_amount,tip):
    total = (bill_amount*1.16) + tip
    print(f"Please pay ${total}")




total_calc(20,0)
```

6- Create a simple function that returns the sum of all numbers passed in as the argument. However, the number of arguments could be different each time we call the function.

```python
def the_sum(*args):
    sum = 0
    for i in args:
        sum += i
    return sum

print(the_sum(10,20,30))
```

7. Write a python program that reads the salary of the employee and calls a function that takes a salary of an employee and increases it by 10% if the salary is less than 1000 else 5%.

```python
def sal_inc(sal):
    if sal < 1000:
        sal= sal + sal*0.1
    else:
        sal= sal + sal*0.05
    return sal
salary=float(input("Enter a salary: "))
salary = sal_inc(salary)
print("The salary after the increment is: " ,salary)
```