

Python Functions

1.Function with return, without arguments

- Function Type 1

```
def pie():  
    return 3.141592653589793238462643383279502884197169399375105820974944592307816406286  
  
a=int(input("Enter Radius: "))  
print(a*a*pie())
```

2.Function with return, with arguments

- Function Type 2

```
def area(a):  
    return a*a*3.141592653589793238462643383279502884197169399375105820974944592307816406286  
  
print(area(int(input("Enter Radius: "))))
```

3.Function without return, with arguments

- Function Type 3

```
def area(a):  
    print(a*a*3.141592653589793238462643383279502884197169399375105820974944592307816406286)
```

```
area(int(input("Enter Radius: ")))
```

4.Function without return, without arguments

- Function Type 4

```
def area():  
    a=2  
    print(a*a*3.141592653589793238462643383279502884197169399375105820974944592307816406286)  
  
area()
```

5.Variable length arguments in python functions

- Variablelengthargs

```
def myFun(**kwargs):  
    for key, value in kwargs.items():  
        print (f"{key} == {value}")  
  
myFun(one = 'Welcome', two = 'To', three='Python')
```

6.Keyword arguments in python functions

- Keywordargs

```
def sum(a,b,c):  
    print(f"Sum: {a+b+c}")
```

```
sum(a=int(input("Enter a: ")),b=int(input("Enter b: ")),c=int(input("Enter c: ")))  
sum(a=int(input("Enter a: ")),c=int(input("Enter c: ")),b=int(input("Enter b: ")))
```

7.Default arguments in python functions

- defaultargs

```
def area(a,pi=3.141592653589793238462643383279502884197169399375105820974944592307816406286):  
    return a*a*pi  
  
print(area(int(input("Enter Radius: "))))
```