Assignment No. 5

a. Write different ways to pass argument to function using example.

Ans-

Methods of passing values to functions:

e.g:
```
def cube (x) :
    res = x ** 3
    return res
```

① Passing literal as argument in function call-

```
cube (4)
```
it would pass value as 4 to
argument x

② Passing variable as argument

```
num = 10
cube (num)
```

③ taking input while running

```
num = int (input ("Enter a number"))
```

④ Using function call inside another statement:

```
print (cube(3))
```

⑤ Using function call inside Expression

$$\boxed{\text{double of cube} = 2 * \text{cube}(3)}$$

Q - What is Map?

Ans - The map() function (which is a built-in function in Python) is used to apply a function to each item in an iterable (like a Python list or dictionary). It returns a new iterable (a map object) that you can use in other parts of your code.

Syntax :
```
map(function, iterable, [iterable 1, iterable 2,
```

E.g.
```
def addition (n):
    return n+n

numbers = [1,2,3,4]
result = map (addition, numbers)
print (list(result))
```

Output :
```
[2,4,6,8]
```