## Assignment - 19 Functions

**1. Write a python program to create a simple function which prints “MySirG”.**

```
def f1():
   print("MySirG")
f1()
```

**Output:-**

```
MySirG
```

**2. Write a python program to create a function which expects two arguments and print them in the function body.**

```
def f1(a,b):
   print(a,b)
f1(10,20)
```

**Output:-**

```
10   20
```

**3. Write a python program to create a function which expects an unknown number of arguments.**

```
def f1(*n):
   for e in n:
      print(e,end=' ')
f1(10,20)
```

**Output:-**

```
10  20
```

**4. Write a python program to create a function which expects kwargs arguments.**

```
def f1(**kwargs):
   for k,v in kwargs.items():
      print(f"Argument '{k}':{v}")
```

```
f1(name="Tarun",Last_name="Pal",age=20)
```

**Output:-**

```
Argument 'name':Tarun
Argument 'Last_name':Pal
Argument 'age':20
```

**5. Write a python program to create a function which expects a list as an argument.**

```
def f1(list):
    for e in list:
        print("Element:",e)
list=[10,20,30,40]
f1(list)
```

**Output:-**

```
Element: 10
Element: 20
Element: 30
Element: 40
```

**6. Write a python program to create a function that finds a maximum of four numbers.**

```
def f1(a,b,c,d):
    list=[a,b,c,d]
    return max(list)
x=f1(10,20,4,3)
print("Maximum is:",x)
```

**Output:-**

```
Maximum is: 20
```

**7. Write a python program to sum all the numbers in a list.**

```
def f1(x):
    return sum(x)
x=f1([10,20,4,3])
print("Sum is:",x)
```

**Output:-**

```
Sum is: 37
```

**8. Write a python program to multiply all the numbers in a list.**

```
def f1(x):
    result=1
    for e in x:
        result*=e
    return result
x=f1([10,20,4,3])
print("Multiplication is:",x)
```

**Output:-**

```
Multiplication is: 2400
```

**9. Write a python program to create a function to check whether a number falls in a given range.**

```
def f1(number,start,end):
    if number>=start and number<=end:
        return True
    else:
        return False
num=25
range_start=10
range_end=30
```

```
is_in_range=f1(num,range_start,range_end)
if is_in_range:
    print("Number falls within the range.")
else:
    print("Number does not fall within the range.")
```

**Output:-**

Number falls within the range.

**10. Write a python program to create a function to check whether a given number is even or odd.**

```
def f1(number):
    if number%2==0:
        return True
    else:
        return False
num=25
is_even=f1(num)
if is_even:
    print("Number is even.")
else:
    print("Number is odd.")
```

**Output:-**

Number is odd.