

## Assignment-2

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- 1) Python function to find maximum of three numbers.

```
def biggest(a,b,c):  
    if a>b and a>c:  
        Print("Biggest Number=",a)  
    elif b>a and b>c:  
        Print("Biggest Number=",b)  
    elif a==b:  
        Print("a=b=",a)  
    elif a==c:  
        Print("a=c=",a)  
    elif b==c:  
        Print("b=c=",b)  
    else:  
        Print("Biggest Number=",c)
```

biggest(2,8,8)

biggest(6,4,20)

Output:

b=c=8

Biggest Number=20

~~biggest(6,4,20)~~

2. Python Program to reverse a string

```
txt="GITAM"[::-1]
```

```
Print("Reversed string is",txt)
```

Output:

Reversed string is MATIG

3. Program to check if a number is prime or not.

```
num=407
```

```
if num>1:
```

```
for i in range(2,num):
```

```
    if (num%i)==0:
```

```
Print(num, "is not a Prime number")
```

```
Print(i, "times", num//i, "is", num)
```

```
break
```

```
else:
```

```
Print(num, "is a Prime number")
```

```
else:
```

```
Print(num, "is not a Prime number")
```

- 4) Write a Python function to find the sum of squares of first n natural numbers.

```
def SquareSum(n):
```

```
    S=0
```

```
    for i in range(1, n+1):
```

```
        S = S + (i*i)
```

```
    return S
```

```
    n=4
```

```
    Print(SquareSum(n))
```

- 5) Use try, except, else and finally block to check whether the number is Palindrome or not. (Raise error when input is not proper).

```
def isPalindrome(word):
```

```
    if len(word) < 1:
```

```
        return True
```

```
    else:
```

```
        if word[0] == word[-1]:
```

```
            return isPalindrome(word[1:-1])
```

```
    else:
```

```
        return False
```

```
def Input(filename):
```

```
    Palindrome = False
```

```
    fh = open(filename, "r")
```

```
fh = open length = input("Enter the length of Palindromes:")
```

```
    d = int(length)
```

```
    try:
```

```
        for line in fh:
```

```
for s in str(len(line)):
```

```
if isPalindrome(line.strip()):
```

```
    Palindromes = true
```

```
if (len(line.strip()) <= 1):
```

```
    Print(line.strip())
```

```
except:
```

```
    Print("no Palindromes found for length entered")
```

```
finally:
```

```
    fh.close()
```