DEPARTMENT OF
COMPUTER SCIENCE & ENGINEERING

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# EXPERIMENT -1.2

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**Branch:** CSE **Section/Group: 808-B**
**Semester:** 4th **Date of Performance:**
**Subject Name:** Programming in Python lab **Subject Code:** 21CSP-259

## 1. Aim:

1.) **WAP to print the pattern of numbers.**
2.) **WAP to print the sum of natural numbers.**
3.) **WAP to check weather a given no is Palindrome.**
4.) **WAP to check weather a given no is Armstrong or not taking input from the user.**
5.) **WAP to take 3 numbers from the user and print the greater number.**

## 2. Source code:

**WAP to print the pattern of numbers.**

```
# WAP to print the pattern of numbers .

temp = int(input("Enter he number "))
for i in range(1,temp+1):
    for j in range(1,i+1):
        print(i,end=" ")
    print()
```

**WAP to print the sum of natural numbers.**

```
# WAP to print the sum of natural numbers.

temp1 = int(input("Enter the number "))
sum = 0
for i in range(1,temp1+1):
    sum = sum+i
print("Print of natural number is ",sum)
```

**WAP to check weather a given no is Palindrome.**

```
# WAP to check weather a given no is Palidrome.


a = input("Enter any word ")
temp = 0
temp2 = len(a)
for i in range(temp2):
    if(a[i]==a[temp2-1]):
        temp2 = temp2 -1
        continue
    else:
        temp = temp+1
if(temp == 0):
    print(a," is palindrome")
else:
    print(a," is not palindrome")
```

**WAP to check weather a given no is Armstrong or not taking input from the user.**

```
# WAP to check weather a given no is Armstrong or not

a = input("Enter any number: ")
size = len(a)
res = 0
for i in range(size):
    temp = int(a[i])
    res = res+(temp*temp*temp)
if res == int(a):
    print("It is armstrong number")
else:
    print("It is not an armstrong number")
```

**WAP to take 3 numbers from the user and print the greater number.**

```
# WAP to take 3 numbers from the user and print the gr

num1 = int(input("Enter the first number "))
num2 = int(input("Enter the Second number "))
num3 = int(input("Enter the third number "))
if(num1>num2 and num1>num3):
    print(num1," is greatest")
elif(num2>num1 and num2>num3):
    print(num2," is greatest")
else:
    print(num3," is greatest")
```

## 3. Output:

```
PS C:\Users\rs962\Desktop\Workshet code> python -u "c:\U
ktop\Workshet code\1.2.py"
Enter the number 10
1
2 2
3 3 3
4 4 4 4
5 5 5 5 5
6 6 6 6 6 6
7 7 7 7 7 7 7
8 8 8 8 8 8 8 8
9 9 9 9 9 9 9 9 9
10 10 10 10 10 10 10 10 10 10
PS C:\Users\rs962\Desktop\Workshet code>
```

```
ktop\Workshet code\1.2.py"
Enter the number 10
Print of natural number is  55
PS C:\Users\rs962\Desktop\Workshet code>
```

```
PS C:\Users\rs962\Desktop\Workshet code> python -u "c:\Users\rs962\Des
ktop\Workshet code\1.2.py"
Enter any word madam
madam  is palindrome
PS C:\Users\rs962\Desktop\Workshet code> python -u "c:\Users\rs962\Des
ktop\Workshet code\1.2.py"
Enter any word car
car  is not palindrome
PS C:\Users\rs962\Desktop\Workshet code>
```

```
PS C:\Users\rs962\Desktop\Workshet code> python -u
ktop\Workshet code\1.2.py"
Enter the first number 5
Enter the Second number 22
Enter the third number 9
22  is greatest
PS C:\Users\rs962\Desktop\Workshet code>
```

```
PS C:\Users\rs962\Desktop\Workshet code> python -u "c:\Users\rs962\Desktop\Workshet code\1.2.py"
Enter any number: 153
It is armstrong number
PS C:\Users\rs962\Desktop\Workshet code> python -u "c:\Users\rs962\Desktop\Workshet code\1.2.py"
Enter any number: 154
It is not an armstrong number
PS C:\Users\rs962\Desktop\Workshet code>
```