



Python Programming - 2301CS404

Lab - 3

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9-12-2024

01) WAP to print 1 to 10.

```
In [1]: for i in range(11):  
        print(i)
```

0
1
2
3
4
5
6
7
8
9
10

02) WAP to print 1 to n.

```
In [4]: num = int(input("Enter range Number:"))  
        for i in range(1,num+1):  
            print(i)
```

1
2
3
4
5

03) WAP to print odd numbers between 1 to n.

```
In [6]: num = int(input("Enter range Number:"))
        for i in range(1,num+1,2):
            print(i)
```

1
3
5

04) WAP to print numbers between two given numbers which is divisible by 2 but not divisible by 3.

```
In [7]: num1 = int(input("Enter first Number:"))
        num2 = int(input("Enter last Number:"))
        for i in range(num1,num2+1):
            if(i%2==0 and i%3!=0):
                print(i)
```

2
4
8
10
14

05) WAP to print sum of 1 to n numbers.

```
In [9]: temp=0;
        num = int(input("Enter range:"))
        for i in range(1,num+1):
            temp = temp + i
        print(temp)
```

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06) WAP to print sum of series 1 + 4 + 9 + 16 + 25 + 36 + ...n.

```
In [16]: temp = 0;
        num = int(input("Enter range:"))
        for i in range(1,num+1,1):
            temp = temp+(i*i)
        print(temp)
```

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07) WAP to print sum of series 1 – 2 + 3 – 4 + 5 – 6 + 7 ... n.

```
In [13]: temp1 = 0;
        temp2 = 0;
```

```
ans = 0;
num = int(input("Enter range:"))
for i in range(1,num+1,2):
    temp1 = temp1+i
for i in range(2,num+1,2):
    temp2 = temp2+i
ans = temp1-temp2
print(ans)
```

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08) WAP to print multiplication table of given number.

```
In [18]: num = int(input("Enter Number:"))
for i in range(1,11):
    print(num," * ",i," = ",(num*i))
```

```
6 * 1 = 6
6 * 2 = 12
6 * 3 = 18
6 * 4 = 24
6 * 5 = 30
6 * 6 = 36
6 * 7 = 42
6 * 8 = 48
6 * 9 = 54
6 * 10 = 60
```

09) WAP to find factorial of the given number.

```
In [21]: temp = 1;
n = int(input("Enter number:"))
while(n>0):
    temp = temp*n;
    n=n-1;
print(temp)
```

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10) WAP to find factors of the given number.

```
In [23]: num = int(input("Enter Number:"))
for i in range(1,num+1):
    if(num%i==0):
        print(i)
```

```
1
2
3
4
6
12
```

11) WAP to find whether the given number is prime or not.

```
In [40]: num = int(input("Enter Number:"))
for i in range(2,((num+1)//2)+1):
    if(num%i==0):
```

```
        print("Number is Not Prime")
        break;
else:
    print("Number is Prime")
```

Number is Not Prime

12) WAP to print sum of digits of given number.

```
In [2]: num = int(input("Enter Number:"))
total=0;
rem=0;
while(num>0):
    rem = num%10;
    total = total + rem;
    num = num//10;
print("Sum is:",total)
```

Sum is: 6

13) WAP to check whether the given number is palindrome or not

```
In [10]: ans = 0;
rem = 0;
num = int(input("Enter Number:"))
temp = num;
while num>0:
    rem = num%10;
    ans = rem + (ans*10);
    num = num//10;
if ans==temp:
    print("Number ",temp," is Palindrome");
else:
    print("Number ",temp," is Not Palindrome");
```

Number 1010 is Not Palindrome

14) WAP to print GCD of given two numbers.

```
In [18]: num1 = int(input("Enter First Number:"))
num2 = int(input("Enter Second Number:"))
for i in range(2,num1+1 or num2+1):
    if(num1%i==0 and num2%i==0):
        print("Gcd is: ",i)
```

Gcd is: 3