

## Practical No. 3

Roll no. 2049

### Q1) Print multiplication table

```
i=2
for b in range(1,10):
    c=b*2
    print(f"2*{b}=",c)
```

#### Output:

```
= RESTART: C:/Users/DYP/De
2*1= 2
2*2= 4
2*3= 6
2*4= 8
2*5= 10
2*6= 12
2*7= 14
2*8= 16
2*9= 18
2*10= 20
```

#### Output:

```
===== RESTART: C:/Users/DYP/
Even numbers
2
4
6
8
10
12
14
16
18
Print odd numbers
1
3
5
7
9
11
13
15
17
19
```

### Q2) Print Even od numbers using loop

```
print("Even numbers")
for i in range(1,20):
    if i%2==0:
        print(i)
print("Print odd numbers")
for j in range(1,20):
    if j%2==1:
        print(j)
```

### Q3) Sum of natural numbers by 1

```
print("print natural numbers")
for i in range(1,101):
    continue
    i=i+i
print(i)
```

## Output:

```
= RESTART: C:/Users/DYP/Desktop/python program table.py
print natural numbers
200
|
```

### Q4) check the given number is Armstrong or not

```
n = int(input("Enter a number"))
s = n
b = len(str(n))
sum1 = 0
while n != 0:
    r = n % 10
    sum1 = sum1 + (r**b)
    n = n//10
if s == sum1:
    print("The given number", s, "is armstrong number")
else:
    print("The given number", s, "is not armstrong number")
```

## Output:

```
===== RESTART: C:/Users/DYP/Desktop/python program
Enter a number 153
The given number 153 is armstrong number
|
```

### Q5) Print Fibonacci sequence

```
nterms = int(input("How many terms? "))
n1, n2 = 0, 1
count = 0
if nterms <= 0:
    print("Please enter a positive integer")
elif nterms == 1:
    print("Fibonacci sequence upto",nterms,":")
    print(n1)
else:
    print("Fibonacci sequence:")
    while count < nterms:
        print(n1)
        nth = n1 + n2
        n1 = n2
        n2 = nth
        count += 1
```

## Output:

```
===== RESTART: C:/Users/DYP/Desktop/python program
How many terms? 8
Fibonacci sequence:
0
1
1
2
3
5
8
13
```