1. CHECK PALINDROME NUMBER OR NOT

In [1]:
```python
num=int(input("enter the number"))
temp=num
rev_num=0
while(num>0):
    remainder=num%10
    rev_num=(rev_num*10)+remainder
    num=num//10
if temp==rev_num:
    print("the number is palindrome")
else:
    print("the number is not palindrome")
```

```
enter the number141
the number is palindrome
```

2. CHECK ARMSTRONG NUMBER OR NOT

In [7]:
```python
number=int(input("Enter the three digit number:"))
temp=number
sum=0
while temp>0:
    digit=temp%10
    sum=(digit**3)+sum
    temp=temp//10
if number==sum:
    print("Armstrong number")
else:
    print("Not Armstrong ")
```

```
Enter the three digit number:153
Armstrong number
```

3.FIBONACCI SERIES

```
In [8]: n=int(input("Enter the range:"))
        a=0
        b=1
        sum=0
        for i in range(n):
            print(sum)
            a=b
            b=sum
            sum=a+b
```

```
Enter the range:10
0
1
1
2
3
5
8
13
21
34
```

4. SUM OF NUMBER AND ITS REVERSE

```
In [10]: num=int(input("Enter the number:"))
         rev=0
         temp=num
         while num>0:
             rem=num%10
             rev=(rev*10)+rem
             num=num//10
         print("reverse of the number:",rev)
         print(temp,"+",rev,"=",temp+rev)
```

```
Enter the number:1234
reverse of the number: 4321
1234 + 4321 = 5555
```

5.PRINT 'N' NUMBERS

In [5]:
```python
i=1
n=int(input("Enter number"))
while i<=+n:
    print(i)
    i=i+1
```

```
Enter number12
1
2
3
4
5
6
7
8
9
10
11
12
```

6.TABLE OF A NUMBER

In [6]:
```python
i=1
n=int(input("Enter the number"))
print("Table of",n,"is")
while i<=10:
    print(i,"*",n ,"=",n*i)
    i=i+1
```

```
Enter the number5
Table of 5 is
1 * 5 = 5
2 * 5 = 10
3 * 5 = 15
4 * 5 = 20
5 * 5 = 25
6 * 5 = 30
7 * 5 = 35
8 * 5 = 40
9 * 5 = 45
10 * 5 = 50
```

7. FACTORIAL OF A NUMBER

In [7]:
```python
i=1
f=1
n=int(input("Enter number"))
while i<=n:
    f=f*i
    i=i+1
print("factorial of",n,"is",f)
```

```
Enter number5
factorial of 5 is 120
```

8. PRINT EVEN NUMBER FROM 1 TO 100

In [4]:
```python
i=1
while i<=100:
    if i%2==0:
        print(i)
    i=i+1
```

2
4
6
8
10
12
14
16
18
20
22
24
26
28
30
32
34
36
38
40
42
44
46
48
50
52
54
56
58
60
62
64
66
68
70
72
74
76
78
80
82
84
86
88
90
92
94
96
98
100

In [ ]: