Q.1.#WAP to print all even numbers until n.

```
n=int(input("Enter value of n:"))
i=2
while(i<=n):
    print(i)
    i=i+2
```

Q.2.#WAP to print all odd numbers until n

```
num=int(input("Enter number:"))
i=1
while(i<=num):
    print(i)
    i=i+2
```

Q.3.#WAP to print sum of series upto n.

```
n=int(input("Enter number:"))
sum=0
i=1
while(i<=n):
    sum=sum+i
    i+=1
print(sum)
```

Q.4.#WAP to print factorial of number.

```
n=int(input("Enter number:"))
fact=1
i=1
while(i<=n):
    fact=fact*i
    i=i+1
print(f'factorial of {n}={fact}')
```

Q.5.#WAP to print Fibonacci upto n.

```
n=int(input("How many fibonnaci number you want:"))
a,b=-1,1
for i in range(1,n+1):
    c=a+b
    print(c,end=' ')
    a=b
    b=c
```

Q.6.#WAP to check if a given number is prime number or not.

```
num=int(input("Enter number:"))
for i in range(2,num//2+1):
    if(num%i==0):
        print("Not a prime.")
        break
else:
    print("Prime.")
```

Q.7.#WAP to print all integers uoto n that aren't divisible by 2 and 3

```
n=int(input("Enter number:"))
i=1
while(i<=n):
    if(i%2!=0 and i%3!=0):
```

```
        print(i)
    i=i+1
```

Q.8.#WAP to find which numbers are divisible by 7 and multiple of 5 in a given range.

```
for i in range(1,50):
    if(i%7==0 or i%5==0):
        print(i)
```

Q.9.#WAP to print all numbers in a range divisible by a given number.

```
n=int(input("Enter number:"))
for num in range(1,60):
    if(num%n==0):
        print(num)
```

Q.10.#WAP to check if given number is perfect number.

```
n=int(input("Enter number:"))
sum=0
i=1
while(i<n):
    if(n%i==0):
        sum=sum+i
    i=i+1
if(sum==n):
    print("Number is perfect number.")
else:
    print("Number is not perfect number.")
```

Q.11.#WAP to check if given number is Strong number.

```
num=int(input("Enter number:"))
original_num=num
fact_sum=0
while(num>0):
    d=num%10
    #print(d)
    fact=1
    i=1
    while(i<=d):
        fact=fact*i
        i=i+1
    fact_sum=fact_sum+fact
    num=num//10
    #print(num)
    #print(fact_sum)

if(fact_sum==original_num):
     print(f'{original_num} is strong number.')
else:
     print(f'{original_num} is not strong number.')
```

Q.12#WAP to print Armstrong number within a given range.

```
start=int(input("Enter start of range:"))
stop=int(input("Enter end of the range:"))
for i in range(start,stop+1):
    sum=0
    num=i
```

```
while(num>0):
    d=num%10
    #sum=sum+d**3
    num=num//10
    sum=sum+d**3
if(i==sum):
    print(i)
```