1. WAP to print all even numbers until n.

```
n = int (input ("Enter a number:"))
for i in range (1, n+1):
    if (i % 2 == 0):
        print(i)
```

2. WAP to print all odd numbers until n.

```
n = int (input ("Enter a number:"))
for i in range (1, n+1, 2):
    print(i)
```

3. WAP to print sum of series upto n.

```
n = int (input ("Enter a number:"))
sum_series = 0
for i in range (1, n + 1):
    sum_series += i
print ("Sum of series:", sum_series)
```

4. WAP to print factorial of a number .

```
n = int (input ("Enter a number:"))
fact = 1
for i in range (1, n + 1):
        fact = fact * i
print ("Factorial:", fact)
```

5. WAP to print Fibonacci series upto n.

```
n = int (input ("Enter the number of terms:"))
a, b = 0, 1
print ("Fibonacci Series:", a, b, end=" ")
for _ in range (n - 2):
        c = a + b
        print (c, end=" ")
        a, b = b, c
```

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

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

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

```
n = int (input ("Enter a number:"))
for i in range (1, n + 1):
    if (i % 2 != 0) and (i % 3 != 0):
        print(i)
```

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

```
start = int (input ("Enter the start of range:"))
end = int (input ("Enter the end of range:"))
print ("Numbers divisible by 7 and multiple of 5:")
for i in range (start, end + 1):
    if (i % 7 == 0) and (i % 5 == 0):
        print(i)
```

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

```
start = int (input ("Enter start of range:"))
end = int (input ("Enter end of range:"))
divisor = int (input ("Enter the number to divide by:"))
for i in range (start, end + 1):
    if (i % divisor == 0):
        print(i)
```

10. WAP to check if given number is Perfect Number.

```
num = int (input ("Enter a number:"))
sum_factors = 0
for i in range (1, num):
      if num % i == 0:
            sum_factors += i

if sum_factors == num:
     print ("Perfect Number")
else:
     print ("Not a Perfect Number")
```

11. WAP to check if given number Strong Number.

```
import math
num = int (input ("Enter a number:"))
temp = num
sum_factorial = 0

while temp > 0:
     digit = temp % 10
     sum_factorial += math.factorial(digit)
     temp //= 10

if sum_factorial == num:
     print ("Strong Number")
else:
     print ("Not a Strong Number")
```

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

```
lower = int (input ("Enter lower range:"))
upper = int (input ("Enter upper range:"))

for num in range (lower, upper + 1):
       total = 0
       temp = num
       digits = len(str(num))
```

```
while temp > 0:
    digit = temp % 10
    total += digit ** digits
    temp //= 10
if num == total:
    print(num)
```