Iterative statement

March 9, 2025

[1]:
```
#Print the * pattern with a range of 5


rows = 5
for i in range(1, rows+1):
    print('*' * i)
```

```
*
**
***
****
*****
```

[3]:
```
# WAP to print the first n of the Fibonacci series

n = int(input('Enter the number: '))
a, b = 0, 1

for  _ in range(n):
    print(a, end= ' ')
    a, b = b, a + b
```

```
Enter the number:  20
```

```
0 1 1 2 3 5 8 13 21 34 55 89 144 233 377 610 987 1597 2584 4181
```

[5]:
```
# WAP to print the first n of the Fibonacci series

n = int(input('Enter the number: '))
a, b = 0, 1

for  _ in range(n):
    print(a, end= ' ')
    a, b = b, a + b
```

```
Enter the number:  17
```

```
0 1 1 2 3 5 8 13 21 34 55 89 144 233 377 610 987
```

[7]:
```
#WAP to take number as an input and print the sum of its digit

num = int(input('Enter the number: '))
sum = 0

while num > 0:
    digit = num % 10
    sum += digit
    num //= 10

print('The sum of the digits is: ', sum)
```

```
Enter the number:  56
```

```
The sum of the digits is:  11
```

[9]:
```
#WAP to print the reverse of a given number

num = int(input('Enter the number: '))
reverse = 0

while num > 0:
    digit = num % 10
    reverse = reverse*10+digit
    num //= 10


print('The reverse order is: ', reverse)
```

```
Enter the number:  45678
```

```
The reverse order is:  87654
```

[13]:
```
#WAP that takes two number as input and performs division. Handle the case␣
 ↪where denominator is zero

try:
    num1 =int(input('Enter the first number: '))
    num2 =int(input('Enter the second number: '))
    result = num1/num2
    print('Result: ', result)
except ZeroDivisionError:
    print('Error: Division by zero is not allowed ')
```

```
Enter the first number:  45
Enter the second number:  0
```

```
Error: Division by zero is not allowed
```

[15]:
```
#WAP that takes two number as input and performs division. Handle the case␣
 ↪where denominator is zero

try:
    num1 =int(input('Enter the first number: '))
    num2 =int(input('Enter the second number: '))
    result = num1/num2
    print('Result: ', result)
except ZeroDivisionError:
    print('Error: Division by zero is not allowed ')
except ValueError:
    print('Invalid input')
```

```
Enter the first number:  hj

Invalid input
```

[ ]: