Harish D. Gadade www.harishgadade.com

- while Loop
- for Loop
- Break and Continue Statements

While Loop

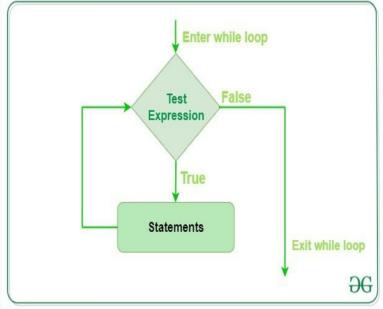
While Loops is used to execute a block of statements repeatedly until a given condition is satisfied.

• Syntax_1:

```
while expression:
    Statement_1
    Statement_2
```

• Syntax_2:

```
while condition:
Statement block
else:
Statement Block
```



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- 5. WAP to print the sum of the numbers from 1 to 30 (1 and 30 are included) that are divisible by 5 using while loop
- 6. WAP to calculate factorial of a given number using while loop

Range() Function

```
Inbuilt Function
Syntax:
    range (begin, end, step)
Where,
     Begin : First number
     End : is last number or a limit
     Step: difference between each number in the sequence
Example:
>>>list(range(1,6))
     [1,2,3,4,5]
```

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Ways to display for loop

- Range() function
- Reverse printing
- Ways to use for loop

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```
for i in range(5):

if(i==3):

break

print("Hello",i)
```

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```
for i in range(5):
    if(i==3):
        continue
    print("Hello",i)
```

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Examples:

1. 0 0 0 0 0 1 1 1 1 1 2 2 2 2 2 3 3 3 3 3

Examples:

- 2. 1 2 2 3 3 3 4 4 4 4
- 3. 1 1 2 1 2 3 1 2 3 4
- 4. 1 2 1 3 2 1 4 3 2 1

Homework

- 1. Write a program to find the square root of a number
- 2. Write a program to find area of a rectangle
- 3. Write a program to swap the values of two variables
- 4. Write a program to convert kilogram into pound
- 5. Write a program to find whether a number is even or odd
- 6. Write a program to check the largest among the given three numbers