

Assignment_5

March 30, 2024

[1]: *#Write a program to print numbers from 1 to 10, but stop if the number is 5.*

```
for num in range(1, 11):  
    if num == 5:  
        break  
    print(num)
```

1
2
3
4

[2]: *#Write a program to iterate through a list and stop when encountering a ↵
↪specific element.*

```
def stop_at_element(lst, element):  
    for item in lst:  
        if item == element:  
            break  
        print(item)  
  
# Example usage:  
my_list = [1, 2, 3, 4, 5, 6, 7, 8, 9, 10]  
stop_at_element(my_list, 5)
```

1
2
3
4

[3]: *#Write a program to skip printing even numbers from 1 to 10.*

```
for num in range(1, 11):  
    if num % 2 != 0:  
        print(num)
```

1
3

5
7
9

[4]: *#Write a program to print numbers from 0 to 9 using range()*

```
for num in range(10):  
    print(num)
```

0
1
2
3
4
5
6
7
8
9

[7]: *#Write a program to print multiplication tables from 1 to 5,
#but stop after the first table is printed for each number.*

```
for i in range(1, 6):  
    print(f"Multiplication table for {i}:")  
    for j in range(1, 11):  
        print(f"{i} x {j} = {i * j}")  
    print()  
    if i < 5:  
        print("-" * 20)
```

Multiplication table for 1:

1 x 1 = 1
1 x 2 = 2
1 x 3 = 3
1 x 4 = 4
1 x 5 = 5
1 x 6 = 6
1 x 7 = 7
1 x 8 = 8
1 x 9 = 9
1 x 10 = 10

Multiplication table for 2:

2 x 1 = 2
2 x 2 = 4
2 x 3 = 6

$2 \times 4 = 8$
 $2 \times 5 = 10$
 $2 \times 6 = 12$
 $2 \times 7 = 14$
 $2 \times 8 = 16$
 $2 \times 9 = 18$
 $2 \times 10 = 20$

Multiplication table for 3:

$3 \times 1 = 3$
 $3 \times 2 = 6$
 $3 \times 3 = 9$
 $3 \times 4 = 12$
 $3 \times 5 = 15$
 $3 \times 6 = 18$
 $3 \times 7 = 21$
 $3 \times 8 = 24$
 $3 \times 9 = 27$
 $3 \times 10 = 30$

Multiplication table for 4:

$4 \times 1 = 4$
 $4 \times 2 = 8$
 $4 \times 3 = 12$
 $4 \times 4 = 16$
 $4 \times 5 = 20$
 $4 \times 6 = 24$
 $4 \times 7 = 28$
 $4 \times 8 = 32$
 $4 \times 9 = 36$
 $4 \times 10 = 40$

Multiplication table for 5:

$5 \times 1 = 5$
 $5 \times 2 = 10$
 $5 \times 3 = 15$
 $5 \times 4 = 20$
 $5 \times 5 = 25$
 $5 \times 6 = 30$
 $5 \times 7 = 35$
 $5 \times 8 = 40$
 $5 \times 9 = 45$
 $5 \times 10 = 50$

[8]: *#Write a program to skip printing even numbers using a while loop.*

```
num = 1
while num <= 10:
    if num % 2 != 0:
        print(num)
    num += 1
```

1
3
5
7
9

[]: