

1. Display numbers from -10 to -1 using for loop

```
9
10 #Display numbers from -10 to -1 using for loop
11 for num in range(-10, 0):
12     print(num)
13     print("")
14
```

```
-10
-9
-8
-7
-6
-5
-4
-3
-2
-1
```

2. Use else block to display a message "Done" after successful execution of for loop

```
15 #Use else block to display a message "Done" after successful execution of for loop
16 for num in range(-10, 0):
17     print(num)
18 else:
19     print("Done")
20     print("")
21
```

```
-10
-9
-8
-7
-6
-5
-4
-3
-2
-1
Done
```

3. Write a program to display all prime numbers within a range

```
22 #Write a program to display all prime numbers within a range
23 start = int(input("Enter the starting number: "))
24 end = int(input("Enter the ending number: "))
25
26 print(f"Prime numbers between {start} and {end}:")
27 for num in range(start, end + 1):
28     if num > 1:
29         is_prime = True
30         for i in range(2, int(num**0.5) + 1):
31             if num % i == 0:
32                 is_prime = False
33                 break
34         if is_prime:
35             print(num, end=" ")
36             print("")
37
```

```
Enter the starting number: 10
Enter the ending number: 20
Prime numbers between 10 and 20:
```

```
11
13
17
19
```

4. Use a loop to display elements from a given list present at odd index positions

```
37
38 #Use a loop to display elements from a given list present at odd index positions
39 given_list = [10, 20, 30, 40, 50, 60, 70, 80, 90]
40
41 print("Elements at odd index positions:")
42 for i in range(1, len(given_list), 2):
43     print(given_list[i])
44     print("")
45
```

```
Elements at odd index positions:
20
40
60
80
```

5. Display numbers from a list using loop
- The number must be divisible by five
 - If the number is greater than 150, then skip it and move to the next number
 - If the number is greater than 500, then stop the loop
- numbers = [12, 75, 150, 180, 145, 525, 50]

```
46 #Display numbers from a list using loop
47 numbers = [12, 75, 150, 180, 145, 525, 50]
48
49 print("Numbers divisible by five:")
50 for num in numbers:
51     if num % 5 == 0:
52         if num > 500:
53             print("Number greater than 500 encountered. Stopping loop.")
54             break
55         elif num > 150:
56             print("Number greater than 150 encountered. Skipping.")
57             continue
58         else:
59             print(num)
60
```

```
Numbers divisible by five:
75
150
Number greater than 150 encountered. Skipping.
145
Number greater than 500 encountered. Stopping loop.
```