Intermediate termination

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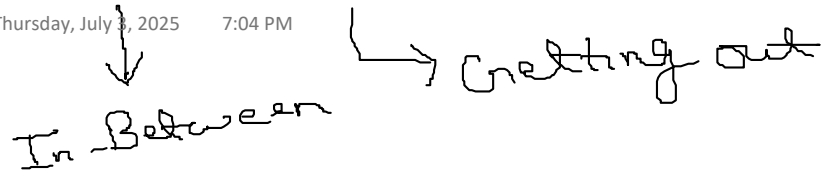

This is a phenomenun where the loop terminates in between only when the termination condition satisfies/becomes true.

To work with Intermediate termination, We have 3 keywords:

1. Break
2. Continue
3. Pass

1. **Break**: It will terminate the loop in between only when the condition will get satisfied
   - Whenever the controller sees the break keyword, it will not wait for the whole execution of the loop

Examples:

```
## WAP to run a loop from 1 to 10 but if 6 is found,just break it
'''for i in range(1,11):
   if i==6:
      break
   print(i)'''

## WAP to ask the user to enter proper username and run the loop continuously
##    until the user enters the correct username
'''db_un='Ghanshu'
while True:
   un=input('Enter the username: ')
   if db_un==un:
      print('Correct username')
      break
   else:
      print('Incorrect username, try again')'''

## WAP to get the first even number in a list entered by user
'''col=eval(input('Enter the list: '))
for i in col:
   if i%2==0:
      print('The even value is',i)
      break
   else:
      print('no even value found')'''
```

2. **Continue**: It is a keyword which is used to skip the particular condition in a program

Example:

```
'''for i in range(1,11):
   if i==6:
      continue
   print(i)'''

## From the collection of 1 to 10, remove the multiples of 3 and print the rest
'''for i in range(1,11):
```

```
    if i%3==0:
        continue
    print(i)'''

## Take a string and a character and if char is found in string, remove that and
## print the rest string
'''s=input('Enter the string: ')
ch=input('Enter the character: ')
for i in s:
    if i==ch:
        continue
    print(i,end=' ')'''
```

3. **Pass**: It is a keyword used to make any empty block as valid

Examples:

```
'''for i in range(1,11):
    pass

i=1
while i<5:
    pass'''
```

Example about the combination:

```
'''for i in range(1,11):
    if i==5:
        continue
    if i==8:
        break
    print(i)'''
```

Assignments:

1. Write a program to check if a number is prime.
2. You have a list of numbers. Write a program to search for a specific number. Use break to stop the search once the number is found.
3. Continuously take input from the user until they enter a negative number. Use break to exit the loop when a negative number is entered.
4. Given a string, print only the vowels by skipping consonants
5. Print the square of even numbers from 1 to 15. Skip odd numbers