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# Loop, while loop
i = 1
while i < 10:
  print(i)
  i = i + 1
     1
     2
     3
     4
     5
     6
     7
     8
# break keyword
i = 1
while i < 8:
  print(i)
  if i == 3:
    break
  i = i + 1
     1
     2
     3
#Rock paper & scissors, uC = userchoice ,, cC = computer choice
#cS = computer selection of RPS
import random
print("Welcome to the game")
\mbox{uC = input("Enter either rock , paper or scissors")} \label{eq:uC}
cC = ("rock", "paper", "scissors")
cS = random.choice(cC)
print(f"\n user choice is{uC} and computer choice is {cS} \n")
# Parctice for loop
# ask user a number like 1256
# calculate sum of digit --- > 1+2+5+6
# solution
total = 0
num = input("enter a number : ")
for i in range(0, len(num)):
  total += int(num[i])
print(total)
     enter a number : 1111
     4
# practice for loop
# ask user name and count each character
# "Akshay Verma"
name = input("enter your name : ")
temp = ""
for i in range(0, len(name)):
  if name[i] not in temp:
    print(f"{name[i]}: {name.count(name[i])}")
    temp += name[i]
     enter your name : Akshay Verma
     A: 1
     k: 1
     s: 1
     h: 1
     a: 2
     y: 1
```

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V: 1
     e: 1
    r: 1
     m: 1
# break and continue keyword in python
# (it is used to break the keyword)
# 1 to 10 print
for i in range(1, 11):
 if i == 5:
   break
 print(i)
# continue
\#print 1 to 10 , but not 5
# 1, 2, 3, 4, 6, 7,8,9,10
for i in range(1,11):
 if i == 5:
   continue
 print(i)
    1
     2
     3
     4
     1
     2
     3
     4
     6
     8
     9
     10
# modify number guessing game
#guess a number between 1 to 100 : 50
winning_number = 43
guess = 1
number = int(input("guess a number between 1 and 100 : "))
game_over =False
while not game_over:
 if number == winning_number:
   print(f"you win, and you guessed this number in {guess} times ")
   game_over = True
  else:
     if number < winning_number:</pre>
       print("too low")
        guess += 1
       number = int(input("guess again : "))
      else:
        print("too high")
        guess += 1
        number = int(input("guess again : "))
    too high
     too high
     too high
     too high
```