```
num = 10
while num <= 50:
  # write prime number code here
  i = 2
  while i < num:
    if num % i == 0:
      break
    i = i + 1
  else:
    print(num,end=' ')
  ###################################
  num = num + 1
   11 13 17 19 23 29 31 37 41 43 47
i = 0
while i < 5:
  print(1,end=' ')
  i = i + 1
   1 1 1 1 1
row = 0
while row < 3:
  ###### write column logic #######
  col = 0
  while col < 5:
    print(1,end=' ')
    col = col + 1
  ######################################
  print() # new row
  row = row + 1
   1 1 1 1 1
   1 1 1 1 1
   1 1 1 1 1
rows = 5
cols = 5
row = 0
while row < rows:
  ##### write column logic ######
  col = 0
  while col < cols:
    print(1,end=' ')
    col = col + 1
  #####################################
  print() # new row
  row = row + 1
   11111
   11111
   11111
   1 1 1 1 1
   1 1 1 1 1
rows = 5
cols = 5
row = 0
while row < rows:
  ######columns######
  col = 0
  while col < cols:
    if row==0 or row==4 or col==0 or col==4:
```

```
print(1,end=' ')
      print(' ',end=' ')
    col = col + 1
  print()
  row = row + 1
   1 1 1 1 1
       1
   1
   1
        1
   1 1 1 1 1
rows = 5
cols = 5
row = 0
while row < rows:
 col = 0
 while col < cols:
    if row == col:
      print(row,end=' ')
    else:
      print(' ',end=' ')
    col = col + 1
  print()
  row = row + 1
    1
s = 'lokesh'
rows = len(s)
cols = len(s)
row = 0
while row < rows:
  col = 0
  while col < cols:
    if row == col:
     print(s[row],end=' ')
    else:
     print(' ',end=' ')
    col = col + 1
  print()
  row = row + 1
s = 'prabhas'
rows = len(s)
cols = len(s)
row = 0
while row < rows:
  col = 0
  while col < cols:
    if row == col:
      print(s[(len(s)-1-row)],end=' ')
      print(' ',end=' ')
    col = col + 1
```

```
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    print()
    row = row + 1
  num = 987
  rev = 0
  while num != 0:
    digit = num % 10
    rev = rev * 10 + digit
    num = num //10
  else:
    print('reverse : ',rev)
      reverse: 789
  num = 9390018934
  backup = num
  rev = 0
  while num != 0:
    digit = num % 10
    rev = rev * 10 + digit
    num = num //10
  else:
    if backup == rev:
       print(backup,'is palindrome number')
       print(backup,'is not a palindrome number')
      9390018934 is not a palindrome number
  num = 20
  while num <= 100:
    rev = 0
    backup = num
    while num != 0:
       digit = num % 10
       rev = rev * 10 + digit
      num = num // 10
    else:
       num = backup
       if num == rev:
         print(num,end= ' ')
    num = num + 1
      22 33 44 55 66 77 88 99
  s = 'hyderabad'
  for row in range(len(s)):
    for col in range(len(s)):
       if row <= col:</pre>
         print(s[col],end=' ')
         print(' ',end=' ')
    print()
      hyderabad
       yderabad
         derabad
           erabad
            rabad
             abad
```

```
b a d
             a d
               d
s = 'hyderabad'
rows = len(s)
cols = len(s)
row = 0
while row < rows:
  col = 0
  while col < cols:
    if row <= col:
      print(s[col],end=' ')
    else:
      print(' ',end=' ')
    col = col + 1
  print()
  row = row + 1
   hyderabad
     yderabad
      derabad
       erabad
         rabad
          abad
            b a d
             a d
s = 'hyderabad'
for row in range(len(s)):
  for col in range(len(s)):
    if row <= col:
      print(s[col - row],end=' ')
      print(' ',end=' ')
  print()
   hyderabad
     hyderaba
      hyderab
       hydera
         hyder
          h y d e
           h y d
             hу
s = 'hyderabad'
rows = len(s)
cols = len(s)
row = 0
while row < rows:
  col = 0
  while col < cols:
    if row <= col:</pre>
      print(s[col - row],end=' ')
    else:
      print(' ',end=' ')
    col = col + 1
  print()
  row = row + 1
   hyderabad
     hyderaba
      hyderab
       hydera
         hyder
          hyde
            h y d
```

h y h

. . .

a b c d

b c d a c d a b

dabc

c a d b

cbad

cdba

. . .

✓ 0s completed at 1:39 PM