Pattern

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| **Shapes** | **Code** |
|  | for i in range(0,5,1):  for j in range(0,i+1):  print("\*", end=" ")  print() |
|  | k=1 for i in range(1,4,1):  for j in range(0,k):  print("\*", end=" ")  k+=2  print() |
|  | for i in range(0,4,1):   for j in range (0,4-i):   print(end=" ")   for j in range (0,i+1):   print("\*", end=" ")  print() |
|  | for i in range(0,4,1):  for j in range (0,4-i-1):  print(end=" ")  for j in range (0,2\*i+1):  print("\*", end="")  print()  Text  Description automatically generated with medium confidence |
|  | for i in range(5,0,-1):  for j in range(0, 5-i):  print(end=" ")  for j in range(0,i):  print("\*", end=" ")  print() |
|  | Graphical user interface, text  Description automatically generated |
|  | k=5 for i in range(0,5,1):  for j in range (0,k+1):  print("\*", end="")  print() |

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| **Shapes** | **Code** |
| A picture containing chart  Description automatically generated | for row in range (7): *# there are six rows* for col in range(5): *# there are five columns* if ((col == 0 or col == 4) and row!=0) or ((row==0 or row==3) and (col>0 and col<4)):  print("\*", end="")  else:  print(end=" ") *# print the spaces* print()*#* |
| Chart  Description automatically generated with medium confidence | for row in range (7):  for col in range(5):  if (col == 0) or (col == 4 and (row != 0 and row != 3 and row != 6)) or ((row == 0 or row == 3 or row == 6) and (col > 0 and col < 4)):  print("\*",end="")  else:  print(end=" ")  print() |
| Chart  Description automatically generated with medium confidence | for row in range(7):  for col in range(5):  if (col == 0 and (row != 0 and row != 6)) or ((row == 0 or row == 6) and (col > 0)):  print("\*", end="")  else:  print(end=" ")  print() |
| A screenshot of a game  Description automatically generated with low confidence | for row in range(7):  for col in range(5):  if (col==0) or (col==4 and (row!=0 and row!=6)) or ((row==0 or row==6) and (col>0 and col<4)):  print("\*", end="")  else:  print(end=" ")  print() |
| A screenshot of a game  Description automatically generated with medium confidence | print("print E") for row in range(7):  for col in range(5):  if (col == 0) or ((row == 0 or row == 3 or row == 6) and col > 0):  print("\*", end="")  else:  print(end=" ")  print() |
| A screenshot of a game  Description automatically generated with medium confidence | print("print F") for row in range(7):  for col in range(5):  if (col == 0) or ((row == 0 or row == 3) and col > 0):  print("\*", end="")  else:  print(end=" ")  print() |
| A picture containing text, measuring stick  Description automatically generated | print("print G") for row in range(7):  for col in range(6):  if (col == 0 or (col==4 and row!=2) or (col==5 and (row==3))) or (((row == 0 and col!=5) or (row==3 and (col>1 and col<4)) or (row == 6 and col!=5)) and (col> 0 or col< 5)):  print("\*", end="")  else:  print(end=" ")  print() |
| Chart, histogram, scatter chart  Description automatically generated | print("print H") for row in range(7):  for col in range(6):  if (col == 0 or col == 4) or (row == 3 and (col > 1 and col < 4)):  print("\*", end="")  else:  print(end=" ")  print() |
| Chart  Description automatically generated | print("print I") for row in range(7):  for col in range(5):  if (col==2 or (row==0 or row==6)):  print("\*", end="")  else:  print(end=" ")  print() |
| Chart, scatter chart  Description automatically generated | print("print J ") for row in range(7):  for col in range(5):  if col==2 or (row == 0 or (row == 6 and (col != 3 and col != 4))):  print("\*", end="")  else:  print(end=" ")  print() |
|  | print("print K") r = 0 *# for section 3* c = 4 *# for section 3* for row in range(7):  for col in range(5):  if col == 0 or (row == col + 2 and col > 0): *#for section 1 and section 2* print("\*", end="")  elif (row == r and col == c) and col>1: *# for section 3* print("\*", end="")  r += 1  c -= 1  else:  print(end=" ")  print() |
| Chart  Description automatically generated | print("print L ") for row in range(7):  for col in range(5):  if (col==0 or row==6):  print("\*", end="")  else:  print(end=" ")  print() |
| Chart, waterfall chart  Description automatically generated | print("print M ") for row in range(7):  for col in range(7):  if col == 0 or col == 6:  print("\*", end="")  elif row == col and (0 < col < 4):  print("\*", end="")  elif row == 2 and col == 4:  print("\*", end="")  elif row == 1 and col == 5:  print("\*", end="")  else:  print(end=" ")  print() |
| Chart  Description automatically generated | print("print N ") for row in range(7):  for col in range(7):  if col==0 or col==6:  print("\*", end="")  elif row == col and (0 < col < 6):  print("\*", end="")  else:  print(end=" ")  print( |
| A screenshot of a game  Description automatically generated with medium confidence | print("print O") for row in range(7):  for col in range(5):  if ((col == 0 or col == 4) and (row != 0 and row != 6)) or ((row == 0 or row == 6) and (0 < col < 4)):  print("\*", end="")  else:  print(end=" ")  print() |
|  | print("print P") for row in range(6):  for col in range(5):  if (col == 0 and row != 0) or ((row == 1 and col == 4) or (row == 2 and col == 4)) or \  ((row == 0 or row == 3) and (0 < col < 4)):  print("\*", end="")  else:  print(end=" ")  print() |
| A picture containing text, measuring stick  Description automatically generated | print("print Q ") for row in range(8):  for col in range(6):  if col == 0 and (0 < row < 6):  print("\*", end="")  elif col == 4 and (0 < row < 7):  print("\*", end="")  elif (row == 0 or row == 6) and (0 < col < 4):  print("\*", end="")  elif (row == 5 and col == 3) or (row == 7 and col == 5):  print("\*", end="")  else:  print(end=" ")  print() |
| Chart, scatter chart  Description automatically generated | print("print R") r=4 c=1 for row in range(8):  for col in range(5):  if (col == 0 and row != 0) or (col == 4 and row == 1 or col == 4 and row == 2):  print("\*", end="")  elif (row == 0 or row == 3) and (0 < col < 4):  print("\*", end="")  elif (row == r and col==c) and (0 < col < 5):  print("\*", end="")  r += 1  c += 1  else:  print(end=" ")  print() |
| A screenshot of a game  Description automatically generated with medium confidence | print("print S") for row in range(7):  for col in range(5):  if (col == 0 and (row != 4 and row != 5)) or (col == 4 and (row != 1 and row != 2)):  print("\*", end="")  elif (row == 0 or row == 3 or row == 6) and (0 < col < 4):  print("\*", end="")  else:  print(end=" ")  print() |
| A picture containing chart  Description automatically generated | print("print T") for row in range(6):  for col in range(5):  if (col==2 or row == 0):  print("\*", end="")  else:  print(end=" ")  print() |
| A picture containing text, measuring stick  Description automatically generated | print("print U") for row in range(7):  for col in range(5):  if (col == 0 or col == 4) or (row == 6 and (0 < col < 4)):  print("\*", end="")  else:  print(end=" ")  print() |
| A picture containing text, crossword puzzle  Description automatically generated | print("print V ") r, c = 0, 6 for row in range(4):  for col in range(7):  if col == row:  print("\*", end="")  elif row == r and col == c:  print("\*",end="")  r += 1  c -= 1  else:  print(end=" ")  print() |
| Chart, waterfall chart  Description automatically generated | print("print W") r1, c1 = 3, 3 r2, c2 = 6,1 for row in range(7):  for col in range(7):  if col == 0 or col == 6:  print("\*", end="")  elif row == r1 and col == c1:  print("\*", end="")  r1 += 1  c1 += 1  elif (row == r2 and col == c2) or (row == 4 and col == 2):  print("\*", end="")  r2 -= 1  c2 += 1  else:  print(end=" ")  print() |
| A picture containing calendar  Description automatically generated | print("print X") r = 0 c = 4 for row in range(5):  for col in range(5):  if row == r and col == c:  print("\*", end="")  r += 1  c -= 1  elif col == row:  print("\*", end="")  else:  print(end=" ")  print() |
| Chart  Description automatically generated | print("print Y ") for row in range(5):  for col in range(5):  if (col == 2) and (row > 1):  print("\*", end="")  elif (row == col) and (col<2):  print("\*", end="")  elif (row == 0 and col == 4) or ( row == 1 and col == 3):  print("\*", end="")  else:  print(end=" ")  print() |
| Chart  Description automatically generated | print("print Z") r = 1 c = 3 for row in range(5):  for col in range(5):  if (row == 0 or row == 4):  print("\*", end="")  elif ((row == r and col == c) and (0 < row < 4)):  print("\*", end="")  r += 1  c -= 1  else:  print(end=" ")  print() |