ISAT 252: Analytical Methods IV

Python Loops Activity

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Write the loops corresponding to the following problems:

1. Print out the odd numbers from 1 to 20 on two lines.

for odd1 in [1,3,5,7,9,11]:

print (odd1, end=' ')

print()

for odd2 in [13,15,17,19,21]:

print (odd2, end=' ')

b.) Use a while loop to print out numbers, starting with 1 and doubling each until the total exceeds 1000.……

i = 1

while i <= 1000:

print (i, end=' ')

i = i \* 2

c) Using a nested for loop, print out the following table:

1 2 3 4 5

2 4 6 8 10

3 6 9 12 15

4 8 12 16 20

5 10 15 20 25

for i in range (1,6):

print()

for n in range (1,6):

print (i\*n, end=' ')

# This program displays a triangle pattern.

BASE\_SIZE = 6

for r in range(BASE\_SIZE):

for c in range(r + 1):

print('\*', end='')

print()

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**d) Write a program that uses nested loops to draw this pattern:**

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Answer:

# This program displays a triangle pattern.

BASE\_SIZE = 6

for r in range(BASE\_SIZE):

for c in range(BASE\_SIZE - r):

print('\*', end='')

print()