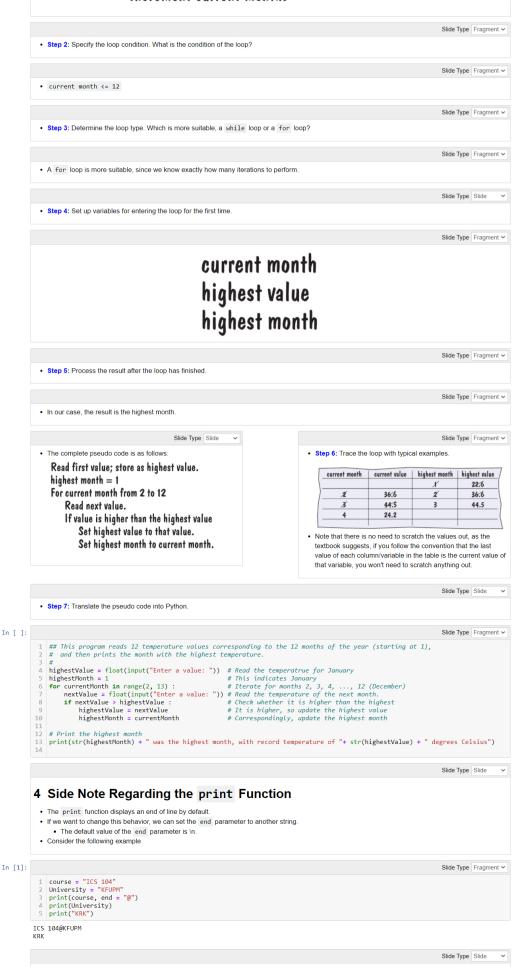
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set highest month to current month. Increment current month.



5 Exercises • Exercise # 1: Write a while loop that prints all squares less than an input integer value n. For example, if the user enters 100, the program shall print 0 1 4 9 16 25 36 49 64 81. • The following are sample runs of the program. Slide Type Enter a positive integer value: 150

Squares of numbers < 150 are:
0 1 4 9 16 25 36 49 64 81 100 121 144 Enter a positive integer value: 34 Squares of numbers < 34 are: 1 4 9 16 25 In [2]: Slide Type 1 # Exercises # 1 - Source Code inputNum1 = int(input("Enter a positive interger value: ")) inputNum1 = inclarage
inumSq = 0
count = 0
print("Squares of numbers <",inputNum1,"are: ")
while numSq < inputNum1:
 print(numSq, end="\t")
 count = count + 1
 numSq = count*count</pre> Enter a positive interger value: 150 Squares of numbers < 150 are: 0 1 4 9 16 25 36 49 64 81 100 121 144 Slide Type Slide • Exercise # 2. Write a while loop that prints all positive numbers that are divisible by 10 and less than the user input value n. For example, if the user enters 100, the program shall print 10 20 30 40 50 60 70 80 90. The following are sample runs of the program. Slide Type Enter a positive integer value: 64 Positive numbers < 64 and divisible by 10 are: 10 20 30 40 50 60 Slide Type Slide Type Enter a positive integer value: 9
There are no positive numbers < 9 divisible by 10 : Enter a positive integer value: -20 There are no positive numbers < -20 divisible by 10 : In [40]: Slide Type 1 # Exercises # 2 - Source Code inputNum2 = int(input("Enter a positive interger value: ")) 3 inputNum2 = int(inp
4 if inputNum2 >= 10: print(numMultup, end="
count = count + 1
numMultup = count*10 10 11 else:
print("There are no positive numbers <",inputNum2,"divisble by 10") Enter a positive interger value: 64
Positive numbers < 64 and divisible by 10 are:
10 20 30 40 50 60 Slide Type Slide • Exercise # 3: Write a program that first asks the user to type today's price for one dollar in Japanese yen, then reads US dollar values and converts each to ven. Use 0 as a sentinel. The following are sample runs of the program. Slide Type Enter today's price in yens for 1 \$: 105.69 Enter today's price in yens for 1 $\$: 105.6 Enter amount in dollars to convert: (0 to quit) 0 Enter amount in dollars to convert: (0 to quit) 200 200.00 dollars = 21138.00 yens Enter amount in dollars to convert: (0 to quit) 500 500.00 dollars = 52845.00 yens Enter amount in dollars to convert: (0 to quit) 100 100.00 dollars = 10569.00 yens Enter amount in dollars to convert: (0 to quit) 0 In [41]: # Exercises # 3 - Source Code
yenForDoll = float(input("Enter today's price in yens for 1\$: "))
inputDollar = float(input("Enter amount in Dollars to convert : (0 to quit) "))
while inputDollar!= 0:
yens = inputDollar * yenForDoll
print("%0.2f dollars = %0.2f yens" % (inputDollar,yens))
inputDollar = float(input("Enter amount in Dollars to convert : (0 to quit) ")) Enter today's price in yens for 1\$: 105.69 Enter amount in Dollars to convert : (0 to quit) 200 200.00 dollars = 21138.00 yens
Enter amount in Dollars to convert : (0 to quit) 500
500.00 dollars = 52845.00 yens
Enter amount in Dollars to convert : (0 to quit) 100 100.00 dollars = 10569.00 yens Enter amount in Dollars to convert : (0 to quit) 0

Slide Type Slide

