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#   Section #1:
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# Q1:Write a python program to print the following
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# Sample string
# A string that you don’t have to escape
# This
# Is a ……. multi-line
# Here doc string--------> example
msg = """
Sample string
A string that you don’t have to escape
This
Is a ……. multi-line
Here doc string--------> example
"""
print(msg)

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input("\npress Enter to continue")
#Q2: Write a python program to display the date
from ex_date=(11,6,2022)
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#Sample output: The exam date will start from : 11
/ 6 / 2022

ex_date = (11, 6, 2022)
print('The exam date will start from : %d / %d /
%d' %(ex_date[0],ex_date[1],ex_date[2]))

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input("\npress Enter to continue")
#Q3: Write a python program to display the first
and last colors from the following list:
#Color_list=["Red", "Green", "White", "Black"]
(Hint: use %s format)

Color_list = ["Red", "Green", "White", "Black"]
print('first color is %s and last color is %s' %
(Color_list[0], Color_list[-1]))

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input("\npress Enter to continue")
#Q4: Write a python program to print out a set
containing all the colors from color_list1 which
are not present in color_list2.
#Test Data:
#Color_list1=[“Red”,”White”, “Black”]
#Color_list2=[“Red”, “Green”]
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#Expected Output:
#{‘Black’, ‘White’}

Color_list1 = ["Red", "White", "Black"]
Color_list2 = ["Red", "Green"]
print(set(Color_list1)-set(Color_list2))

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input("\npress Enter to continue")
#Q5: Write a python program to input two integers
in a single line.

a, b = map(int, input().split())
print(a, " & ", b)

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input("\npress Enter to continue")
#Q6: Create a list of two sports. Ask the user what
their favorite sport is and add this to the end of
the list.
#Sort the list and display it.
sports = ['Swimming', 'Football']
sports.append(input("what is your favorite sport?
"))
sports.sort()
print(sports)
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input("\npress Enter to continue")
#Q7: Create a list of six school subjects. Ask the
user which of these subjects they don’t like.
#Delete the subject they have chosen from the list
before you display the list again.
subjects = ['Math', 'Arabic', 'English', 'Physics',
'Chemistry', 'Biology']
print(subjects)
s = input('which of these subjects you don’t like?
')
subjects.remove(s)
print(subjects)

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input("\npress Enter to continue")
#Q8: Ask the user to enter four of their favourite
foods and store them in a dictionary so
#that they are indexed with numbers starting from
1. Display the dictionary in full, showing
#the index number and the item. Ask them which they
want to get rid of and remove it from the
#list. Sort the remaining data and display the
dictionary.
f1, f2, f3, f4 = input("Enter four of Your
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favourite foods: ").split()
foods = {1: f1, 2: f2, 3: f3, 4: f4}
print(foods)
d = int(input("which of they you want to get rid
of? "))
del foods[d]
values = list(foods.values())
values.sort()
print(values)
print(foods)

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input("\npress Enter to continue")
#Q9: Enter a list of ten colours. Ask the user for
a starting number between 0 and 4 and an end number
between 5 and 9.
#Display the list for those colours between the
start and end numbers the user input.
colors = ['white', 'black', 'red', 'green', 'blue',
'yellow', 'orange', 'pink', 'gray', 'gold']
start = int(input('choose starting number between 0
and 4: '))
end = int(input('choose end number between 5 and 9:
'))
print(colors[start:end])

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input("\npress Enter to continue")
#Q10: Using the 2D list, ask the user to select a
row and a column and display that value.
List = [[2, 5, 8], [3, 7, 4], [1, 6, 9], [4, 2, 0]]
row = int(input('select a row: '))
column = int(input('select a column:'))
print(List[row][column])

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input("\npress Enter to continue")
#Q11:Using the 2D list from program 10 , ask the
user which row they would like displayed and
display just that row.
# Ask them to enter a new value and add it to the
end of the row and display the row again.
List = [[2, 5, 8], [3, 7, 4], [1, 6, 9], [4, 2, 0]]
row = int(input('which row you would like
displayed? '))
print(List[row])
value = int(input('enter a new value: '))
List[row].append(value)
print(List[row])

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input("\npress Enter to continue")
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#Q12: Create the following using a 2D dictionary
showing the sales each person has made in the
different geographical regions:

sales = {'John': {'N': 3056, 'S': 8463, 'E': 8441,
'W': 2694}, 'Tom': {'N': 4832, 'S': 6786, 'E':
4737, 'W': 3612}, 'Anne': {'N': 5239, 'S': 4802,
'E': 5820, 'W': 1859}, 'Fiona': {'N': 3904, 'S':
3645, 'E': 8821, 'W': 2451}}
print(sales)

input("\npress Enter to continue")
#Q13:Using program 12, ask the user for a name and
a region. Display the relevant data.
# Ask the user for the name and region of data they
want to change and allow them to make the
alteration to the sales figure.
# Display the sales for all regions for the name
they choose.
name = input('what is your name? ')
region = input('what is your region? ')
print(sales[name][region])
Mname = input('what is name of data you want to
change? ')
Mregion = input('what is region of data you want to
change? ')
data = int(input('New data: '))
sales[Mname][Mregion] = data
print(sales[Mname])
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