Logo, company name

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Python Final

Instructor: Kareem el debassy

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| Number of pages:11 | Time Allowed:4 Hours |

Python Course Final  
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1-Which of the following is not immutable data in python ?

Integer

Float

List

Boolean

2- X= "hello Aou Students"

print(x[1:12:2])

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ello Aou St

None

3-Which of the following is not a valid way to open and read a file in python ?

f=open("file.txt","r")

f=open("file.txt")

f=open("file.txt","rb")

f=open("file.txt","w")

4-What is the output of the following code ?

x=[1,2,3]

y=x  
y+=[4]

print(x)

[1,2,3,4]

[1,2,3]

[4,3,2,1]

[1,2,3,[4]]

5-What is the correct way to import the python module" math" in a script ?

import Math

import math s

import math

import Math as m

6-What is the correct way to remove an element from a list in python ?

list.delete(element)

list.remove(element)

list.pop(element)

list.clear(element)

7-What is the output of the following code ?

x=(1,2,3)

y=(4,5,6)  
z=x+y

print(z)

(1,2,3,4,5,6)

[1,2,3,4,5,6]

(1,2,3)(4,5,6)

Error

**Notice: In problem solving, do not use any Al platform like ChatGPT; you will be caught for plagiarism and you will be failed.**

Write a Python program that takes a list of integers as   
input and returns a new list that contains only the prime   
numbers   
Text

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Write a Python program that takes a list of numbers as input and returns the sum of all the even numbers in the list

Text

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Write a function called checker and take an argument from the user called word as a string and return the word without vowels.

Text

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Write a Python program that takes a list of integers as input and returns a new list that contains only the prime numbers in the input list.

Text

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Write a function called validate\_password that takes a password as an argument and checks if it meets the following criteria:

1-At least 8 characters long  
  
2-Contains at least one uppercase letter, one lowercase letter, and does not contain a digit

Text

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Create a class called Farm, create an initializer for it, and data attributes name and gender, along with a function called eat to return the type of food. Then, create two classes called Chicken and Duck that invoke this function.

Text

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##output

Text

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