Department of Computer Science and Engineering Faculty of Science & Information Technology

Midterm Examination, Spring-2023

Course Code: CSE233, Course Title: Object Oriented Programming II

Level: 3, 2 Term: 1, 3 Batch: 59, 60

Marks: 25 Time: 1.5 hrs

Answer ALL Questions

[The figures in the right margin indicate the full marks and corresponding course outcomes. All portions of each question must be answered sequentially.]

1.	Cor	nsider the following random items code of groceries.				
	d = 181,178,187,182,192,189,202,201					
	The	concept of dataset is equal for modern intelligence and the second to the second				
1	The concept of dataset is crucial for modern intelligence systems. Initially, we need to process					
1	any data using basic programming concepts such as statistical analysis. Here providing data is also part of that concept which is provided in your class lecture.			CO2		
1	(a)	Create a list constructor for the provided dataset.	2	0		
1	(b)	Develop a function for the data where the function will regenerate the values in	5	0.		
		reverse and sorted way following all the necessary requirements.	01			
\vdash	·c)	Compare between list and array.	3			
2.	Consider the following scenario for the Chatgpt					
1		You: Hi!				
		atgpt: Hi! What can I do now?		1		
		i: Do you know me?	516			
		atgpt: You are from Daffodil International University. You are currently studying	, 5111			
	semester.					
	You: Thanks for your information. Chatget: Thanks for your gratitude					
	Chatgpt: Thanks for your gratitude.					
	You know that chatget is a complex artificial system. And it requires a more newerful system					
	You know that chatgpt is a complex artificial system. And it requires a more powerful system					
	such as a supercomputer. You have no development knowledge of a chatgpt but you have the basic knowledge of object oriented programming II. Now you need to implement some concepts					
	to develop the demo chatgpt.			1		
1	a)	Construct a function to build the demo Chatgpt and all necessary input will take form	5	1		
1		the user as their wishes.	"			
	b)	Justify the line from your demo chatgpt "Chatgpt is better than human".	3	1		
	c)	Explain the process to change the word "5th" to "7th" in the given string.	2	1.		
3.	Let	Let's consider two different list		T.		
	K=	= [1001,1002,1003,1004,1005]	5			
	V=	= ["USA", "Canada", "China", "Japan", "UK"]		CO3		
		opose a function to convert two lists into a dictionary using python script.				
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Department of Computer Science and Engineering Faculty of Science & Information Technology Midterm Examination, Fall 2022

Course Code: CSE233, Course Title: Object Oriented Programming II

Level: L2, L3 Term: T3, T1

Batch: 57, 58

Time: 01:30 Hrs

Marks: 25

Answer ALL Questions [Optional]

[The figures in the right margin indicate the full marks and corresponding course outcomes. All portions of each question must be answered sequentially.]

14	A)	Distinguish between List and Tuple with proper examples. Illustrate the ifelifelse statement flowchart.	[3+2]	CO3
	No.	The following Python code should be carefully read line by line. Identify the problem statement for this code and write down your pseudo code with proper justification. def list(L): fori in L: if (i % 2 == 1): even(i) else: odd(i) print("The list of odd numbers are :") print("The list of even numbers are :") L = [12, 15, 33, 7, 1, 92, 53, 4, 0] print("The list is ") print(L) list(i)	[5]	
2.	Take find o	an integer number as user input then construct a python function to out, if the input is prime or not prime.	[5]	CO3
<i>3</i> .e	count include count popul three	ming pioneer Netflix significantly expanded its global footprint to 190 ries, making its Internet TV service available in 130 new markets ling Bangladesh. The internet TV network expanded to more than 130 ries apart from China, Syria, Crimea or North Korea. The Netflix is a ar streaming platform in Bangladesh. OTT lovers can get Netflix offers streaming plans: Basic, Standard, and Premium, starting at \$9.99 per and ending at \$19.99 per month. Standard plan may cost \$15.99.	[10]	CO1
		ddin Ri.	, 18	ill be

Now your task is creating a nested dictionary by taking user input.

Example,dict = {1: {"name": "Siri", "plan": "Basic"}, 2: {"name": "Alexa", "plan": "Standard"}}

Prepare a function which insert payment in nested dict base on their prefer plan and print out the amount of the payment.

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Department of Computer Science and Engineering Faculty of Science & Information Technology Midterm Examination, Spring 2022

Course Code: CSE233 (Day), Course Title: Object-Oriented Programming II

Level: L2 T3; Section: All Time: 1 Hour 30 Mins, Marks: 25

Questions(Answer All)

Marks

1 (a) As you can see the following is a python code. Read the code line by line carefully.

[4]

value = [1,2,3,4,5,6,7,8,9]
value2 =[1,2,3]

for item in value:

if item == 5:

continue

print("break")

for item2 in value2:

print(item,item2)

Your first task is to find out the problem statement of this code, and what should be the output?

(b) Daffodil International University has been decided to give waiver to students during pandemic according to the following criteria:

Result (CGPA)	Waiver (%)
More than 3.50	20
3.00-3.50	10
Less than 3.00	.5

Take your semester fee and result as user input and print the net waiver amount.

(c) Write a python program which takes odd numbers from 1 to 100 using while loop and make those odd number list and display it.

[4]

[3]

2 (a) Suppose you have a plan for travelling different countries in year 2022 with your friends. The country that you have listed are following: ['India', 'Thailand', 'Bhutan', 'China', 'Nepal', 'Myanmar']. But one of your friends tells you that we cannot travel Myanmar due to the political unrest. Therefore, the country name will be removed from the list. Write a program to display the entire countries name except Myanmar using Loop in python program.

(b) What is the difference between list and tuples?

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[2+3]

[4]

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Define two lists and write a python program that print a new list with the common elements of those lists otherwise print no common elements.

Sample Input: First List [1, 2, 3] and Second List [2, 4, 5]

Output: [2]

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[5]

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(c) Write a Python program that takes a list as an input from the user. Then create a new list excluding the first and last elements of the given list and prints the new list. If there are not enough elements in the list to do the task, the print "Not possible".

Sample Input: [2, 3, 4, 5, 6]

Output: [3, 4, 5]



Department of Computer Science and Engineering

Faculty of Science & Information Technology

Midterm Examination, Summer 2021 @ DIU Blended Learning Center Course Code: CSE233 Course Title: Object Oriented Programming II

Level/Term: L2T3 Section: ALL

Instructor: ALL Modality: Online Exam

Date: 6 July, 2021 Time: 09:00am-11:30am (2.5 hours) Marks: 25

Answer all the Questions. Obtain marks in the right side

1. a. As you can see the following is a python code. Read the code line by line carefully.

Your first task is to find out the **problem statement** of this code, and then **write down pseudocode** of the following code. If we provide following values **as input** to this program, then what should be the **output**?

How many test case: 1 Enter 2 integer: 4 3

- b. You are given a list of 7 days in a week sequentially starting from Saturday. Monday and Wednesday [3] are missing from the list. So, write a python code to add the missing items in the list. In addition, create a function which will take the day from the list and give a message "Today is holiday" if it matches with "Friday" otherwise it will show "Working day".
- 2. a. Suppose, you have to construct a list of string as following:

Name = Shikha,

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Father Name = Muzam,

Mother Name = Haua,

Phone Number = 01971700130

Construct a list using your Own Name, Father name, Mother name, Phone number. Write a program to count the number of characters and count vowels from the list of strings you construct.

Sample Input	Sample Output
[Shikha, Haua, Muzam, 01971700130]	Number of Character: 26
	Number of Vowel: 7

Please justify your answer line by line.

1 | Page

MidtermExam@DIUBLC

[4]

[4]

- b. Write a program which can check every number which is divisible by 2 or 5 lies between 20 and 60. [4] If the number is divisible by 2 then add 5 to the number and the number is divisible by 5 then add 2 to the number. Now print the number in a list.
 - Please justify your answer line by line.
- c. Suppose you are a Software developer in 'XYZ' IT company. Currently your company working on a Government project. The project is aim to develop an app to count the number of COVID19 cases in every day around the whole country. You are working with a team on this project, and your responsibility is to develop user login and authentication portion with admin login access.

As input, you must have to use the following predefine information's on your code:

```
user_name = ["healthMin", "reliefMin", "FoodMin"]
password = ['123health', '456 relief', '789food']
admin = {'imadmin': '123'}
```

Requirements:

Your first tasks are to convert items of **user_name** and **password** list into pair in sequence. And then have to implement all the following concepts:

- A user only can login if and only if his/her username match its corresponding password, otherwise login should be denied.
- A user is not allowed to insert any new item as username and password.
- Someone only can login **as Admin** if and only if his/her username/password match with predefine admin username/password, otherwise login should be denied.
- An Admin is allowed to insert any new item as username and password for new user.

Now from above situation:

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- i. Develop necessary code to fulfil all your assign tasks (by maintaining **predefine** [7] information's and all the **requirements**).
- ii. What are the **Python concepts** used in your code? Express your understanding on your [3] mentioned **Python concepts**.

-- \$\times -- Best of Luck -- \$\times --