CT -1
Section : D

Course name: Object Oriented Programming II: Visual and Web Programming

Course code: CSE 309 **Marks:** 20

Time :30 minutes

Name:

ID: Date:

1. a. **Guess the output:** CO1 3+2

```
x= last 3 digit of your id % 9

if x % 2 == 0:
    if x % 3 == 0:
        output = "Divisible by both 2 and 3"
    else:
        output = "Divisible by 2 only"
else:
    output = "Not divisible by 2"
print(output)
```

b. **Guess the output:**

```
my_list = [3, 6, 9, 12, 15]
output = my_list.pop() + my_list[-1]
print(output)
```

2. Takebirth year as an integer input from the user and calculate their current age. Check whether they are eligible for a senior citizen discount (age 60 or older). If not, calculate how many more years they have until they qualify for the discount. CO2 5

3. You are given a list of words. Write a Python code snippet to find and print the longest word in the list. If there is a tie (multiple words with the same maximum length), print all such words. If the list is empty, print "The list is empty." CO2 10

Suppose the list is: words = ["apple", "banana", "grapefruit", "kiwi", "orange"]. You do not have to take user input.

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1. a **Guess the output:** CO1 3+2

.

```
x= last 3 digit of your id % 5

if x % 2 == 0:
   if x % 3 == 0:
      output = "Divisible by both 2 and 3"
   else:
      output = "Divisible by 2 only"
else:
   output = "Not divisible by 2"
print(output)
```

b **Guess the output:**

.

```
my_list = [3, 6, 9, 15, 15]
output = my_list.pop() + my_list[-1]
print(output)
```

2. Take birth year as an integer input from the user and calculate their current age. Check whether they are eligible for a senior citizen discount (age 60 or older). If not, calculate how many more years they have until they qualify for the discount. CO2 5

3. You are given a list of words. Write a Python code snippet to find and print the longest word in the list. If there is a tie (multiple words with the same maximum length), print all such words. If the list is empty, print "The list is empty." CO2 10

Suppose the list is: words = ["apple", "banana", "grapefruit", "kiwi", "orange"]. You do not have to take user input.