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Certificate: Information Technology: Systems Development

Basic Programming (BP411) Formative Assessment 2

SAQA ID: 78965

Date:	
Student Name:	
ID Number:	

Complete the following question

- Take screenshots of your solutions(Code + Results)
- Convert your document to PDF and upload on ColCampus.
- 1. You are designing a decision structure to convert a student's integer grade to a letter grade. The program must assign a letter grade as specified in the following table:

Percentage range	Letter Grade
90 through 100	A
80 through 89	В
70 through 79	С
65 through 69	D
0 through 64	F

For example, if the user enters a 90, the output should be, "Your letter grade is A". Likewise, if a user enters an 89, the output should be "Your letter grade is B".

2. You are creating a Python program that shows a congratulation message to employees on their birthday. You need to calculate the number of years of service and print a congratulatory message. You have written the following code:

```
start = input("How old were you on the start date?")
end = input("How old are you today?")
```

Complete the code.



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3. You are developing a Python application for an E-commence company.
You need the program to iterate through a list of products and escape when a target product ID is found. How should you complete the code?

4. You are Iterating over a dictionary that returns the keys. In this example, the keys are the types of cards in the board game Clue. **Debug the following program. Two marks per error**

```
accusation = {'room': 'ballroom',
'weapon': 'lead pipe',
'person': 'Col. Mustard'
   for name, contents in drinks.items()
   if contents &{'vermouth', 'orange juice'}:
    print(Name);
```

The result should be as per below:

room weapon person

Rubric				
Criteria	Ratings	Pts		
Descriptive comments in code		5		
Question 1		20		
Question 2		10		
Question 3		5		
Question 4		10		
Total Points:		50		

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