CSCI1200 Spring 2023 Quiz 5

Name: _____

Sample codes

Consider the following code.

```
price_ticket = 5
num_tickets = input("Enter number of tickets as integer: ")
if num_tickets.isdigit():
  total_price = price_ticket*int(num_tickets)
  print("The total price is", total_price)
else:
  print("The input is invalid, a valid input has to be an inte
ger.")
```

If user enters 2, the output is "The total price is 10".
If user enter 2.5, the output is "The input is invalid, a valid input has to be an integer."

Question 1

Consider the following code. Suppose `point_grade` is a variable that is of type `float` and is initialized to some values.

```
if point_grade>=4:
  letter_grade = "A"
elif point_grade>=3:
  letter_grade = "B"
else:
  letter_grade = "C"
print(letter_grade)
```

What is the output of the code for each of the following values of `point_grade`:

(a) `point_grade = 5`

(b) `point_grade = 4`

(c) `point_grade = 3.5`

(d) `point_grade = 2`

(e) `point_grade = 0`

(f) `point_grade = -1`

Question 2

You are asked to write a program to ask user for an input of integer which represents the amount to withdraw from an ATM machine.

If user's input is valid (an integer), display the updated balance to user. The updated balance is balance minus the amount that user's input.

Otherwise, display "Invalid input. Amount entered has to be an integer."

For examples,

- Suppose `balance` is 100. if user enters "34.1", the output is "Invalid input. Amount entered has to be an integer."
- Suppose `balance` is 100. If user enters "50", the output is "The balance is 50."

Complete the following codes.

Hints:

- Reminder to use `int` for type casting when computing the updated balance.
- Check user's input using `.isdigit` before type casting, to avoid system crashes.

```
balance = 100

amount_withdraw = input("Enter the amount to withdraw: ")

if _____:

    balance = _____
```

```
    print("The new balance is, balance)
else:
    print("Invalid input. Amount entered has to be an integer.")
```

Online

Quiz 5 will be done virtually on D2L. See the following for instructions.
- You will require stable internet access to complete this online quiz.
- The quiz is available from 2/22/2023 9.30am to 2/22/2023 11pm.
- Once you have started the quiz, you will have 20 minutes to complete and submit the quiz.
- **ONLY 1 attempt is allowed.**
- **You will be asked to write short answers and complete the code.**
- Answer the questions according to the best of your knowledge.
- You are required to complete the quiz on your own, without referring to any resources.