#### **Assignment: 01**

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# # Question 1

#### Source code Screenshot

```
python > Assignments > Assignment1 > 🍦 assignment1.py >
     print("Question 1")
     print("----")
     username = input("Enter the username: ")
     remaining_attempts = 3 # max attempt to enter the password
      if username == "Tim": # Checking the username with Tim
         while remaining_attempts > 0:
             password = input("Enter the password: ") #getting the password form user
             if password == "12345": # Checking the username
                print("Successful Attempt! Correct Username and password")
                 break
                 remaining_attempts -= 1
                 if remaining_attempts > 0:
                     print(f"Incorrect password. You have {remaining_attempts} attempt(s) left. Please try again.")
                     print("Sorry! You have used all your attempts.")
         print("Your username is incorrect! Please enter a valid username.")
```

### # output

```
PROBLEMS
          OUTPUT
                   DEBUG CONSOLE
                                   TERMINAL
                                             PORTS
PS C& C:/Users/sthas/AppData/Local/Programs/Python/Python312/python.exe "c:/Users/sth
ents/Assignment1/assignment1.py"
Question 1
Enter the username: AAA
Your username is incorrect! Please enter a valid username.
PS C:\Users\sthas\OneDrive - Lambton College\lambton\Term 2\Assignments> & C:/Users/s
/OneDrive - Lambton College/lambton/Term 2/Assignments/python/Assignments/Assignment1
Question 1
Enter the username: Tim
Enter the password: 123
Incorrect password. You have 2 attempt(s) left. Please try again.
Enter the password: 123
Incorrect password. You have 1 attempt(s) left. Please try again.
Enter the password: 123
Sorry! You have used all your attempts.
PS C:\Users\sthas\OneDrive - Lambton College\lambton\Term 2\Assignments> & C:/Users/s
/OneDrive - Lambton College/lambton/Term 2/Assignments/python/Assignments/Assignment1
Ouestion 1
Enter the username: Tim
Enter the password: 123
Incorrect password. You have 2 attempt(s) left. Please try again.
Enter the password: 123
Incorrect password. You have 1 attempt(s) left. Please try again.
Enter the password: 12345
Successful Attempt! Correct Username and password
```

## # Question 2

#### Source code Screenshot

```
python > Assignments > Assignment1 > 🕏 assignment1Q2.py > ...
       class Rectangle:
           def __init__(self, length, width):
               self.length = length
               self.width = width
           def perimerter(self):
               return 2 * (self.length + self.width)
           def area(self):
               return self.length * self.width
 11
           def display(self):
               print(f"Length(L) = {self.length}")
               print(f"Width(W) = {self.width}")
               print(f"Perimeter of rectangle(P) = {self.perimeter()}")
               print(f"Area of rectangle(A) = {self.area()}")
 17
       class Parallelepipede(Rectangle):
           def __init__(self, length, width, height):
               super().__init__(length, width)
               self.height = height
           def volume(self):
               base_area = self.area() * self.height
               volume = base_area * self.height
               return volume
           def display(self):
               print(f"Volume of Parallelepipede = {self.volume()}")
```

## # Output