Assignment 5: Student ID: 901142

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Source code:

```
1 def check_month(entered_month):
        included_months = ['january', 'february', 'march', 'april', 'may', 'june',
                           'july', 'august', 'september', 'october', 'november', 'december']
    def check_day(entered_day):
        return 1 <= entered_day <= 31</pre>
    def parse_date(entered_date):
            return None
       return [splitted_string[0].lower(), int(splitted_string[1])]
      # Determine the season based on the entered date
    def get_season(month, day):
        if (month == 'march' and day >= 20) or (month == 'april') or (month == 'may') or (month == 'june' and day < 21):
            return 'Spring'
        elif (month == 'june' and day >= 21) or (month == 'july') or (month == 'august') or (month == 'september' and day < 22):
            return 'Summer'
        elif (month == 'september' and day >= 22) or (month == 'october') or (month == 'november') or (month == 'december' and day < 21):
            return 'Fall'
    def main():
        # Ask the user to input the date in the format: [month day]
        entered_date = input("Please enter a date e.g July 10 : ")
        # Parse the entered date to extract month and day
        parsed_date = parse_date(entered_date)
        if parsed_date is None:
            print("Please enter in the correct format as 'January 20.")
        entered_month = parsed_date[0].lower()
        entered_day = parsed_date[1]
        if not check_month(entered_month):
                "OOPS !, you entered invalid month.\nMonth must be between January to December.")
        if not check_day(entered_day):
            print("OOPS !, you entered invalid day.\nDay must be between 1 to 31.")
        # Determine and get the season based on entered month and day
        season = get_season(entered_month, entered_day)
```

Test case 1 [March 20]:

```
🍦 assign5.py 🗡
assign5.py > ...
      def check_month(entered_month):
           included_months = ['january', 'february', 'march', 'april', 'may', 'june',
                             'july', 'august', 'september', 'october', 'november', 'december']
           return entered_month.lower() in included_months
      def check day(entered day):
          return 1 <= entered_day <= 31</pre>
 def parse_date(entered_date):
          splitted_string = entered_date.strip().split(' ')
          if len(splitted_string) != 2:
              return None
          return [splitted_string[0].lower(), int(splitted_string[1])]
        # Determine the season based on the entered date
      def get_season(month, day):
          if (month == 'march' and day >= 20) or (month == 'april') or (month == 'may') or (month == 'june' and day < 21):
          elif (month == 'june' and day >= 21) or (month == 'july') or (month == 'august') or (month == 'september' and day < 22):
              return 'Summer'
          elif (month == 'september' and day >= 22) or (month == 'october') or (month == 'november') or (month == 'december' and day < 21):
              return 'Winter'
 31 def main():
          entered_date = input("Please enter a date e.g July 10 : ")
           # Parse the entered date to extract month and day
          parsed_date = parse_date(entered_date)
          if narsed date is None:
 COMMENTS PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
 > python3 assign5.py
 Please enter a date e.g July 10 : march 20
 Spring
```

Test case 1 [July 15]:

```
assign5.py X
assign5.py > ...
       def check_month(entered_month):
           included_months = ['january', 'february', 'march', 'april', 'may', 'june',
                              'july', 'august', 'september', 'october', 'november', 'december']
           return entered month.lower() in included months
  7 def check_day(entered_day):
           return 1 <= entered_day <= 31</pre>
 def parse_date(entered_date):
           splitted_string = entered_date.strip().split(' ')
           if len(splitted_string) != 2:
              return None
           return [splitted_string[0].lower(), int(splitted_string[1])]
        # Determine the season based on the entered date
      def get_season(month, day):
           if (month == 'march' and day >= 20) or (month == 'april') or (month == 'may') or (month == 'june' and day < 21):
               return 'Spring'
           elif (month == 'june' and day >= 21) or (month == 'july') or (month == 'august') or (month == 'september' and day < 22):
              return 'Summer'
          elif (month == 'september' and day >= 22) or (month == 'october') or (month == 'november') or (month == 'december' and day < 21):
           return 'Fall'
          return 'Winter'
 31 def main():
           entered_date = input("Please enter a date e.g July 10 : ")
           # Parse the entered date to extract month and day
           parsed_date = parse_date(entered_date)
 COMMENTS PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
 > python3 assign5.py
 Please enter a date e.g July 10 : july 15
 Summer
```

Test case 1 [November 15]:

```
assign5.py ×
assign5.py > ...
      def check_month(entered_month):
           included_months = ['january', 'february', 'march', 'april', 'may', 'june',
                              'july', 'august', 'september', 'october', 'november', 'december']
           return entered_month.lower() in included_months
       def check_day(entered_day):
           return 1 <= entered_day <= 31</pre>
      def parse_date(entered_date):
           splitted_string = entered_date.strip().split(' ')
           if len(splitted_string) != 2:
           return [splitted_string[0].lower(), int(splitted_string[1])]
         # Determine the season based on the entered date
 20 def get_season(month, day):
           if (month == 'march' and day >= 20) or (month == 'april') or (month == 'may') or (month == 'june' and day < 21):
               return 'Spring'
          elif (month == 'june' and day >= 21) or (month == 'july') or (month == 'august') or (month == 'september' and day < 22):
               return 'Summer'
           elif (month == 'september' and day >= 22) or (month == 'october') or (month == 'november') or (month == 'december' and day < 21):
              return 'Winter'
 31 def main():
           entered_date = input("Please enter a date e.g July 10 : ")
           parsed_date = parse_date(entered_date)
           if narsed date is None:
 COMMENTS PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
 ) python3 assign5.py
 Please enter a date e.g July 10 : November 15
 Fall
```

Test case 1 [sep]:

```
🤚 assign5.py 🛛 🔻
assign5.py > 🕅 main
      def check_month(entered_month):
           included_months = ['january', 'february', 'march', 'april', 'may', 'june',
                              'july', 'august', 'september', 'october', 'november', 'december']
           return entered_month.lower() in included_months
      def check_day(entered_day):
          return 1 <= entered_day <= 31</pre>
      def parse_date(entered_date):
          splitted_string = entered_date.strip().split(' ')
          if len(splitted_string) != 2:
               return None
           return [splitted_string[0].lower(), int(splitted_string[1])]
        # Determine the season based on the entered date
      def get_season(month, day):
           if (month == 'march' and day >= 20) or (month == 'april') or (month == 'may') or (month == 'june' and day < 21):
           elif (month == 'june' and day >= 21) or (month == 'july') or (month == 'august') or (month == 'september' and day < 22):
              return 'Summer'
          elif (month == 'september' and day >= 22) or (month == 'october') or (month == 'november') or (month == 'december' and day < 21):
              return 'Fall'
          return 'Winter'
      def main():
           entered_date = input("Please enter a date e.g July 10 : ")
           # Parse the entered date to extract month and day
           parsed_date = parse_date(entered_date)
                                                                                                                                          级
 COMMENTS PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
> python3 assign5.py
 Please enter a date e.g July 10 : sep
 Please enter in the correct format as 'January 20.
```