```
1  num=int(input("please Enter the Number
    you wish:"))
2   if (num%4==0):
3     if(num%100==0):
4         if(num%400==0):
5         print("%d is a leap year"%num)
6         else:
7         print("%d is not"%num)
8         else:
9         print("%d is a leap year"%num)
10         else:
11         print("%d is not"%num)
```





✓ Run

5s on 18:55:46, 10/24 🗸

please Enter the Number you wish:3
3 is not

```
1 v class BankAccount:
 2 ~
        def __init__(self,
    account_number, account_holder_name,
    initial balance=0.0):
 3
             self.__account number =
    account number
 4
             self.__account_holder_name =
    account_holder_name
 5
             self.__account_balance =
    initial balance
 6
7 🗸
        def deposit(self, amount):
8 ~
            if amount > 0:
9
                 self.__account_balance +=
    amount
L0
                 print('Deposited {}. New
    balance: {}'.format(amount,
    self.__account_balance))
L1 V
            else:
12
                 print('Invalid deposit
    amount. Please deposit a positive
    amount.')
.3
.4 🗸
       def withdraw(self, amount):
.5 🗸
            if amount > 0 and amount <=
    self.__account_balance:
.6
                 self.__account_balance -=
   amount
.7
                print('Withdraw {}. New
                    Ln 1, Col 1 • Spaces: 2 History 5
```

```
2 v class BankAccount:
        def __init__(self,
    account_number, account_holder_name,
    initial_balance=0.0):
             self._account_number =
 4
    account_number
             self.__account_holder_name =
5
    account_holder_name
             self.___account_balance =
 6
    initial_balance
7
        def deposit(self, amount):
8 ~
             if amount > 0:
9 ~
                 self.___account_balance +=
10
     amount
                 print("Deposited {}. New
11
    balance: {}".format(amount,
    self.___account_balance))
            else:
12 ~
                 print("Invalid deposit
13
    amount. Please deposit a positive
    amount.")
14
    def withdraw(self, amount):
15 ~
            if amount > 0 and amount <=
16 ~
    self.___account_balance:
                 self.___account_balance -=
17
     amount # Corrected this line
                 print("Withdrew {}. New
18
                     Ln 1, Col 1 • Spaces: 2 History '5
```

```
1 v def linearSearchProduct(productlist,
    targetProduct):
 2
      indices = []
3
      for index, product in
4 ,
    enumerate(productlist):
        if product == targetProduct:
5 🗸
          indices.append(index)
 6
7
8
      return indices
9
10
11
    # Example usage:
12
    products = ["shoes", "boot", "loafes",
    "shoes", "sandal", "shoes"]
    target = "shoes"
13
14
    result = linearSearchProduct(products,
    target)
15
    print(result)
```

∨ Run

49ms on 18:52:11, 10/24 <

Name: Charlie, Roll Number: A003, CGPA:

3.9

Name: Alice, Roll Number: A001, CGPA: 3.

8

Name: David, Roll Number: A004, CGPA: 3.

7

Name: Bob, Roll Number: A002, CGPA: 3.5

✓ Run

45ms on 18:52:27, 10/24 ✓

Name: Charlie, Roll Number: A003, CGPA:

3.9

Name: Alice, Roll Number: A001, CGPA: 3.

8

Name: David, Roll Number: A004, CGPA: 3.

7

Name: Bob, Roll Number: A002, CGPA: 3.5

```
1 class Student:
        def __init__(self, name,
 2 🗸
    roll_number, cgpa):
 3
             self.name = name
 4
             self.roll number = roll_number
 5
             self.cgpa = cgpa
 6
 7 v def sort_students(student_list):
        sorted_students =
 8
    sorted(student_list, key=lambda
    student: student.cgpa, reverse=True)
        return sorted_students
 9
10
11
    # Example usage
12 \vee \text{students} = \lceil
        Student("Alice", "A001", 3.8),
13
        Student("Bob", "A002", 3.5),
14
        Student("Charlie", "A003", 3.9),
15
        Student("David", "A004", 3.7)
16
17 ]
18
    # Sort students based on CGPA in
19
    descending order
20
    sorted_students =
    sort_students(students)
21
    # Print the sorted list of students
22
23 v for student in sorted_students:
        print(f"Name: {student.name},
24
                     Ln 1, Col 1 • Spaces: 2 History 5
```



⊕ Exit

∨ Run

155ms on 18:53:00, 10/24 🗸

[0, 3, 5]





∨ Run

229ms on 18:53:28, 10/24 🗸

The batsman is batting. The bowler is bowling.

```
1 v class Player:
      def play(self):
2 🗸
3
            print("The player is playing
    cricket.")
4
5 v class Batsman(Player):
6 🗸
      def play(self):
            print("The batsman is
7
    batting.")
8
9 v class Bowler(Player):
        def play(self):
10 🗸
11
            print("The bowler is bowling.")
12
13
    # Create objects of Batsman and Bowler
    classes
14 batsman = Batsman()
   bowler = Bowler()
15
16
17
    # Call the play() method for each
    object
18
    batsman.play()
19
    bowler.play()
```



∨ Run

227ms on 18:53:54, 10/24 ✓

Account balance for Hari Prabu (Account #123456789): 5000.0

Deposited 500.0. New balance: 5500.0 Withdrew 200.0. New balance: 5300.0

Account balance for Hari Prabu (Account

#123456789): 5300.0



⊕ Exit

∨ Run

48ms on 18:54:21, 10/24 🗸

Deposited 500. New balance: 1500.0 Withdraw 200. New balance: 1300.0