



## Challenge 1.1 :

Exit

```
1 num=int(input("please Enter the
  Numbe 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
9     else:
10        print("%d is a leap year"%num)
11 else:
12     print("%d is not"%num)
13
14
```

Ln 1, Col 1 • Spaces: 2 History



main.py



Run





## Challenge 1.1 :



Exit



Run

3m on 19:05:45, 10/24 ⚠

please Enter the Numbe you wish:



Run

4m on 19:05:45, 10/24 ✓

please Enter the Numbe you wish:3  
3 is not



&gt;\_ Console



Run





## Challenge 1.2 :

Exit

```
1 v def Fact_rec(n):  
2 v     if n==0 or n==1:  
3         return 1  
4 v     else:  
5         return n * Fact_rec(n-1)  
6     number=2  
7     res = Fact_rec(number)  
8     print("the Factorial of {} is {} . " .  
9         format (number,res))
```

Ln 1, Col 1 • Spaces: 2 History



main.py



Run





## Challenge 1.2 :



Exit



Run

293ms on 19:19:00, 10/24 ✓

the Factorial of 2 is 2 .



&gt;\_ Console



Run





## Challenge 2.1 :

Exit

```
new_balance: {}'.format(amount,
self.__account_balance))
11     else:
12         print('Invalid deposit
amount. Please deposit a positive
amount.')
13
14     def withdraw(self, amount):
15         if amount > 0 and amount <=
self.__account_balance:
16             self.__account_balance -
= amount
17             print('Withdraw {}. New
balance: {}'.format(amount,
self.__account_balance))
18         else:
19             print('Invalid withdraw
amount or insufficient balance.')
20
21 # Example usage:
22 account = BankAccount("12345",
"John Doe", 1000.0)
23 account.deposit(500)
24 account.withdraw(200)
```

Ln 1, Col 1 • Spaces: 2 History



main.py



Run





## Challenge 2.1 :

Exit



Run

160ms on 19:20:39, 10/24 ✓

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



&gt;\_ Console



Run





## Challenge 2.2 :

Exit

```
1 v class player:
2 v     def play(self):
3         print("the player is playing
         cricket.")
4 v class batsman(player):
5 v     def play(self):
6         print("The batsman is
         batting.")
7 v class bowler(player):
8 v     def play(self):
9         print("The bowler is bowler. ")
10 Batsman=batsman()
11 Bowler=bowler()
12 Batsman.play()
13 Bowler.play()
14
15
```

Ln 1, Col 1 • Spaces: 2 History



main.py



Run





## Challenge 2.2 :

Exit



Run

131ms on 19:21:10, 10/24 ✓

The batsman is batting.  
The bowler is bowler.



&gt;\_ Console



Run







## Challenge 3.1 :

Exit

```
1
2 class Student:
3     def __init__(self, name,
4         roll_number, cgpa):
5         self.name = name
6         self.roll_number =
7         roll_number
8         self.cgpa = cgpa
9
10 def sort_students(student_list):
11     sorted_students =
12     sorted(student_list, key=lambda
13         student: student.cgpa, reverse=True)
14     return sorted_students
15
16 students = [
17     Student("Hari", "A123", 7.8),
18     Student("Srikanth", "A124",
19         8.9),
20     Student("Saunhya", "A125", 9.1),
21     Student("Mahidhar", "A126",
22         9.9),
23 ]
24
25 sorted_students =
26 sort_students(students)
```

Ln 1, Col 1 • Spaces: 2 History



main.py



Run





## Challenge 3.1 :

Exit

```
6         self.cgpa = cgpa
7
8  def sort_students(student_list):
9      sorted_students =
10         sorted(student_list, key=lambda
11             student: student.cgpa, reverse=True)
12         return sorted_students
13
14 students = [
15     Student("Hari", "A123", 7.8),
16     Student("Srikanth", "A124",
17         8.9),
18     Student("Saunnya", "A125", 9.1),
19     Student("Mahidhar", "A126",
20         9.9),
21 ]
22
23 sorted_students =
24     sort_students(students)
25
26 for student in sorted_students:
27     print("Name: {}, Roll Number:
28         {}, CGPA: {}".format(student.name,
29             student.roll_number, student.cgpa))
```

Ln 1, Col 1 • Spaces: 2 History



main.py



Run





## Challenge 3.1 :



Exit



Run

239ms on 19:23:30, 10/24 ✓

Name: Mahidhar, Roll Number: A126, CGPA  
: 9.9

Name: Saunya, Roll Number: A125, CGPA:  
9.1

Name: Srikanth, Roll Number: A124, CGPA  
: 8.9

Name: Hari, Roll Number: A123, CGPA: 7.  
8



&gt;\_ Console



Run





## Challenge 3.2 :



Exit

```
1 def
  linear_search_product_list(productList, targetProduct):
2     indices = []
3     for index, product in
  enumerate(productList):
4         if product == targetProduct:
5             indices.append(index)
6     return indices
7
8 # Example usage:
9 products = ["shoes", "boot",
  "loafes", "shoes", "sandal", "shoes"]
10 target = "shoes"
11 target2 = "apple"
12 result =
  linear_search_product_list(products,
  target)
13 print(result)
```

Ln 1, Col 1 • Spaces: 2 History



main.py



Run





## Challenge 3.2

Exit



Run

61ms on 19:22:02, 10/24 ✓

```
[0, 3, 5]
```



&gt;\_ Console



Run

