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Register No : 23MCA1030

Date : 02-08-2023

## Q1. Print largest number among three number

```
largestof3number.py > ...
1  num1=10
2  num2=800
3  num3=100
4
5  if(num1>=num2) and (num1>=num3):
6      print("num 1 is greater")
7  elif(num1<num2) and (num3<num2):
8      print("num 2 is greater")
9  else:
10     print("num 3 is greater")
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
● /bin/python3 /home/student/Desktop/23MCA1030/largeststudent@hostserver42:~/Desktop/23MCA1030$ /bin/python3 /home/student/Desktop/23MCA1030/largestof3number.py
num 2 is greater
○ student@hostserver42:~/Desktop/23MCA1030$
```

## Q2. Even odd number

```
evenorodd.py ×
```

```
evenorodd.py > ...
1  number=input("Enter a number: ")
2  x=int(number)%2
3  if x==0:
4      print("The number is Even")
5  else:
6      print("The number is odd")
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
● student@hostserver42:~/Desktop/23MCA1030$ /bin/python3 /home/student/Desktop/23MCA1030/evenorodd.py
Enter a number: 50
The number is Even
● student@hostserver42:~/Desktop/23MCA1030$ /bin/python3 /home/student/Desktop/23MCA1030/evenorodd.py
Enter a number: 43
The number is odd
○ student@hostserver42:~/Desktop/23MCA1030$ sn
```

## Q3. While Loop Print

```
evenorodd.py Whileloop.py × break.py pass.py continue.py
```

```
Whileloop.py > ...
1  n=int(input("enter a value less then 10 : "))
2  while(n<=10):
3      print(n)
4      n=n+1
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
● student@hostserver42:~/Desktop/23MCA1030$ /bin/python3 /home/student/Desktop/23MCA1030/Whileloop.py
enter a value less then 10 : 8
8
9
10
○ student@hostserver42:~/Desktop/23MCA1030$
```

## Q4. Break in Python

```
evenorodd.py  Whileloop.py  break.py  pass.py  continue.py
break.py > ...
1  i=1
2  while i<=5:
3      print(i)
4      if i==3:
5          break
6      i=i+1
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
student@hostserver42:~/Desktop/23MCA1030$ /bin/python3 /home/student/Desktop/23MCA1030/break.py
1
2
3
student@hostserver42:~/Desktop/23MCA1030$
```

## Q5. Continue in Python

```
evenorodd.py  Whileloop.py  break.py  pass.py  continue.py X
continue.py > ...
1  for var in "VinayakSingh":
2      if var=='a':
3          continue
4      print(var)
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
/bin/python3 /home/student/Desktop/23MCA1030/continue.py
student@hostserver42:~/Desktop/23MCA1030$ /bin/python3 /home/student/Desktop/23MCA1030/continue.py
V
i
n
y
k
S
i
n
g
h
student@hostserver42:~/Desktop/23MCA1030$
```

Q6. The Head Librarian at a library wants you to make a program that calculates the fine for returning the book after the return date. You are given the actual and the expected return dates Calculate the toe as follows

- a. if the book is returned on or before the expected return date, no fine will be charged, in other words fine is 0.
- b. if the book is returned in the same month as the expected return date, Fine 15 Rupees Number of late days
- c. if the book is not resumed in the same month but in the same year as the expected return date, Fine 500 Rupees Number of late months
- d. If the book is not returned in the same year, the fine is fixed at 10000 Rupees

```
Librarian.py > actual_return_date
1 def calculate_fine(actual_date, expected_date):
2     actual_day, actual_month, actual_year = actual_date
3     expected_day, expected_month, expected_year = expected_date
4
5     if actual_year > expected_year:
6         return 10000
7     elif actual_year == expected_year:
8         if actual_month > expected_month:
9             return 500 * (actual_month - expected_month)
10        elif actual_month == expected_month:
11            if actual_day > expected_day:
12                return 15 * (actual_day - expected_day)
13        return 0
14
15 actual_return_date = (5, 8, 2023)
16 expected_return_date = (2, 8, 2023)
17 fine = calculate_fine(actual_return_date, expected_return_date)
18 print("Fine: {} Rupees".format(fine))
```

PROBLEMS OUTPUT TERMINAL

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D:\Coding\Python>python -u "d:\Coding\Python\Librarian.py"  
Fine: 45 Rupees

END