Dharavath Ramdas

Python Coding Interview Questions and Answers link

github link : https://lnkd.in/gNZs5b9N (https://lnkd.in/gNZs5b9N)

Python Coding Interview Questions

Q.1.write a program to find the number of days in a month of a given year in python ?

In [23]:

```python
def no_of_days_month(year,month):
    leap = 0
    if year%400 == 0:
        leap = 1
    elif year%100 == 0:
        leap = 0
    elif year%4 == 0:
        leap = 1
    if month == 2:
        return "Total Days in Month :",28 + leap
    odd_months = [1,3,5,7,8,10,12]
    if month in odd_months:
        return "Total Days in Month :",31
    else:
        return "Total Days in Month :",30
no_of_days_month(int(input("Enter Year :")),int(input("Enter Month :")))
```

```
Enter Year :1999
Enter Month :5
```

Out[23]:

```
('Total Days in Month :', 31)
```

In [24]:

```python
no_of_days_month(int(input("Enter Year :")),int(input("Enter Month :")))
```

```
Enter Year :2000
Enter Month :2
```

Out[24]:

```
('Total Days in Month :', 29)
```

In [25]:

```python
no_of_days_month(int(input("Enter Year :")),int(input("Enter Month :")))
```

```
Enter Year :2001
Enter Month :2
```

Out[25]:

```
('Total Days in Month :', 28)
```

In [26]:

```python
no_of_days_month(int(input("Enter Year :")),int(input("Enter Month :")))
```

```
Enter Year :2002
Enter Month :2
```

Out[26]:

```
('Total Days in Month :', 28)
```

Q.2.write a program to find roots of a quadratic equation in python ?

In [27]:

```python
# import complex math module
import cmath
a = float(input('Enter a: '))
b = float(input('Enter b: '))
c = float(input('Enter c: '))

# calculate the discriminant
d = (b**2) - (4*a*c)

# find two solutions
sol1 = (-b-cmath.sqrt(d))/(2*a)
sol2 = (-b+cmath.sqrt(d))/(2*a)
print('The solution are {0} and {1}'.format(sol1,sol2))
```

```
Enter a: 2
Enter b: 2
Enter c: 2
The solution are (-0.5-0.8660254037844386j) and (-0.5+0.8660254037844386j)
```

Q 3.program to find the number of digits in a given integer count digits in given number in python ?

In [28]:

```python
def count_digits(num):

    print(len(str(num)))
count_digits(int(input()))
```

```
3456
4
```

In [29]:

```python
count_digits(int(input()))
```

```
12345
5
```

In [30]:

```python
count_digits(int(input()))
```

```
12345678
8
```

In [7]:

```python
n=int(input("Enter number:"))
count=0
while(n>0):
    count=count+1
    n=n//10
print("The number of digits in the number are:",count)
```

```
Enter number:345
The number of digits in the number are: 3
```

Q 4.program to find factorial of a number in python ?

In [3]:

```python
n = 7
fac = 1
c = 1
while c<= n:
    fac = fac * c
    c = c + 1
print(fac)
```

```
5040
```

In [19]:

```python
def factorial(n):
    num = 1
    while n >= 1:
        num = num * n
        n = n - 1
    return num
```

In [20]:

```python
factorial(int(input("Enter Number :")))
```

6

Out[20]:

720

In [31]:

```python
factorial(int(input("Enter Number :")))
```

Enter Number :5

Out[31]:

120

In [21]:

```python
factorial(int(input("Enter Number :")))
```

Enter Number :8

Out[21]:

40320

Q.5 program to print fibonacci series in python ?

In [10]:

```python
def fibo(num):

    if num == 0:
        return 0
    elif num == 1:
        return 1
    else:
        return fibo(num-1) + fibo(num-2)
for i in range(10):
    print(fibo(i))
```

```
0
1
1
2
3
5
8
13
21
34
```

Q.6 program to find the sum of n natural numbers in python ?

In [14]:

```python
def sum_of_natu(n):
    su = 0
    if n < 0:
        return "Enter Positive Number"
    else:
        while 1 <= n:
            su = su + n
            n = n-1
    return su
sum_of_natu(16)
```

Out[14]:

136

In [15]:

```
sum_of_natu(3)
```

Out[15]:

6

In [16]:

```
sum_of_natu(4)
```

Out[16]:

10

In [17]:

```
sum_of_natu(10)
```

Out[17]:

55

In [ ]: