

Solutions, 19jan, 2022

1. Write a python program to find day from the given date?

Solution:

```
>>> import datetime
>>> import calendar

>>> def findDay(date):
>>>     born = datetime.datetime.strptime(date, '%d %m %Y').weekday()

>>>     return (calendar.day_name[born])

>>> date = '03 02 2019'
>>> print(findDay(date))
```

2. Write a program to check whether the integer is a palindrome or not?

Solution:

```
>>> n=int(input("Enter number:"))
>>> temp=n
>>> rev=0
>>> while(n>0):
>>>     dig=n%10
>>>     rev=rev*10+dig
>>>     n=n//10
>>> if(temp==rev):
>>>     print("The number is a palindrome!")
>>> else:
>>>     print("The number isn't a palindrome!")
```

3. Write a program to convert Roman into integer?

Solution:

```
>>> def romanToInt(s):
>>>     translations = {
>>>         "I": 1,
>>>         "V": 5,
>>>         "X": 10,
```

```

>>>     "L": 50,
>>>     "C": 100,
>>>     "D": 500,
>>>     "M": 1000
>>> }
>>> number = 0
>>> s = s.replace("IV", "IIII").replace("IX", "VIII")
>>> s = s.replace("XL", "XXXX").replace("XC", "LXXXX")
>>> s = s.replace("CD", "CCCC").replace("CM", "DCCCC")
>>> for char in s:
>>>     number += translations[char]
>>> print(number)

>>> romanToInt('MCV')

```

4.write a program to reverse integer?

Solution:

```

>>> num = 1234
>>> reversed_num = 0

>>> while num != 0:
>>>     digit = num % 10
>>>     reversed_num = reversed_num * 10 + digit
>>>     num //= 10

>>> print("Reversed Number: " + str(reversed_num))

```

5.write a python program to check whether the given Mobile number is correct or not?

Solution:

```

>>> import re
>>> n=input("Enter number:")
>>> m=re.fullmatch("[7-9]\d{9}",n)
>>> if m!= None:
>>>     print("Valid Mobile Number")
>>> else:
>>>     print("Invalid MobileNumber")

```

6. Write a program to check whether the string is anagram or not?

Solution:

```
>>> def anagramCheck(str1, str2):
>>>     if (sorted(str1) == sorted(str2)) :
>>>         return True
>>>     else :
>>>         return False
```

```
>>> str1 = input("Please enter String 1 : ")
>>> str2 = input("Please enter String 2 : ")
>>> if anagramCheck(str1,str2):
>>>     print("Anagram")
>>> else:
>>>     print("Not an anagram")
```

7. Write a program to display '\*' pyramid style triangle (also known as equivalent triangle)  
Solution:

```
>>> n = int(input("Enter number of rows:"))
>>> for i in range(1,n+1):
>>>     print(" " *(n-i),end="")
>>>     print("* " * i)
```

8. Write a Program to reverse order of words.?

Solution:

```
>>> s=input("Enter Some String:")
>>> l=s.split()
>>> l1=[]
>>> i=len(l)-1
>>> while i>=0:
>>>     l1.append(l[i])
>>>     i=i-1
>>> output=' '.join(l1)
>>> print(output)
```

9. write a program to print today's date ?

Solution:

```
>>> # importing date class from datetime module

>>> from datetime import date

>>> # creating the date object of today's date
```

```
>>> todays_date = date.today()

>>> # printing todays date

>>> print("Current date: ", todays_date)
>>> #fetching the current year, month and day of today

>>> print("Current year:", todays_date.year)

>>> print("Current month:", todays_date.month)

>>> print("Current day:", todays_date.day)
```

10. Write a Python Program to Check Common Letters in Two Input Strings?

Solution:

```
>>> s1=input("Enter first string:")
>>> s2=input("Enter second string:")
>>> a=list(set(s1)&set(s2))
>>> print("The common letters are:")
>>> for i in a:
>>>     print(i)
```