English Calender Calender Cregarion Calender Hundu Calender + 56 National Calender Vikram Calender (207**9**) Jean worth but we leap year Saka Calender (1945) 200 (x) noncentury year Century year Moon divisible by 400 divisible by 4 2024 Herre it is a leapyea 800 1200 2400 Normal year They were in century, hence 100 divided by 400 but they rave not divisible by 400 house they are mormal years. 1900 For probability trick => 1-100 =) 24 201-200 24 201-300 => 301-400 = 25 97 out 400 leap year

Odd idays > Total idays > Remainder üs known 7 as odd idays.

Normal year => 365 days => 365 => 1 Remainder I day is odd day un normal ylar.

a Perobability to get 53 rd Monday un normal year.

1 Jan

52 neeks

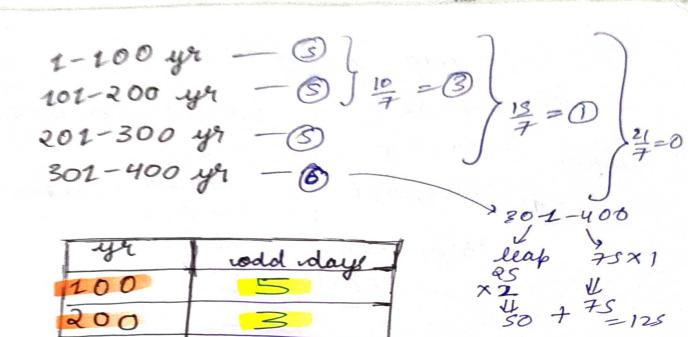
1 Dec J 52 mondays

SMTWTFS

1/7 => P (53 and Monday)

1 year	odd days
Vormal year	
leap year	2

1-100 year > 24 leap X2 = odd days ûn Ileap year 76 normal X 1 = 76 = 124 = 5 odd days Oold days ûn Inownal year



1751 8 Rem

Jan -> 31 => 3 odd days

Feb >> Normal => 28 => 0 odd day

March => 31 => 3 odd days

March => 31 => 3 odd days

April => 30/4 >> 2 odd days

May => 31/4 >> 3 odd days

[] => 31/4 >> 3 odd days

300

400

Dec > 31 > 3 odd days

New Yoday

New Yoday

Total odd days

Rew Yoday

Twesday

Truesday

Hednesday

Thursday

Saturday

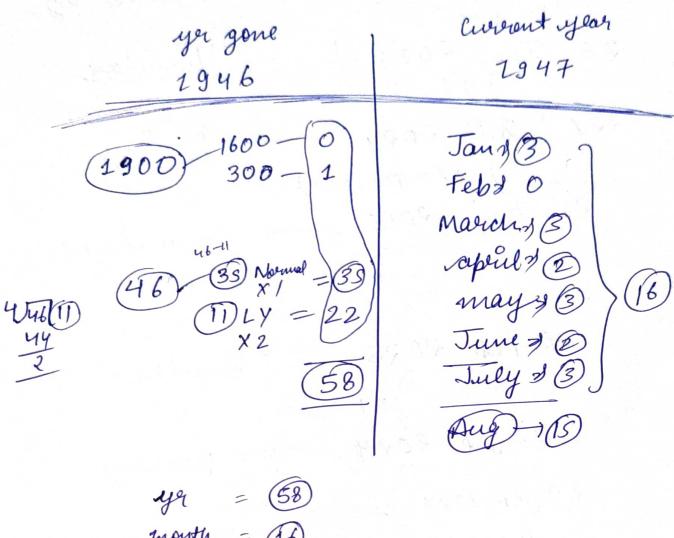
Saturday

Saturday

Saturday

15 Aug 2022) auvent year 2022 year completed $Jan \rightarrow 3$ 4)211 52 perpyon 2000 -1 0 Feb + 0 | leap Asto Tob I March 73 Speril -> 2 >5 leapx2 → 20 May -3 June >2 July > 3/68) Aug = (5) day gone odd days yers = 26 month = 16 (jetne dag gone in moth) day = 15 Total = S7 = Remainder > O So, (Monday) (26 Jan 2022) avoient year year completed 2022 2000 7 0 (09) 7 16×1=16 Jan (28) \$5X2=10 2 6 odd days yers -> 26 month of O days 3 26 So, Wednesday

15 August 1947



Shifting Calenda

- Wednesday 26 Jan 2022 26 Jan 2023 24 L Thursday Feuday 26 Jan 2024 26 Jan 2025 -> Sunday > Sunday 26 Feb 20 23 26 feb 2024 > Monday 29 Jeb 2024)+2) Wodnesday 26 jeb 2025 c Saturday Ary Sanday 0.0 Aug 20015 11 > monday Aug 20025=1 Aug 20037-2 29 feb 200 4 1 1 -> Wednesday Aug 2004 > Thursday Aug 2003 7 Feriday Aug 2006, > Saturday Aug 2007 29 Jeb 2008 11 - Monday Aug 2008-11 Aug 2009 -1 > Tuesday 11 dug 2010/ > Wednesday

gap b/w 2001 & 2010 => 9 yers >> 7 NY => 7 old days

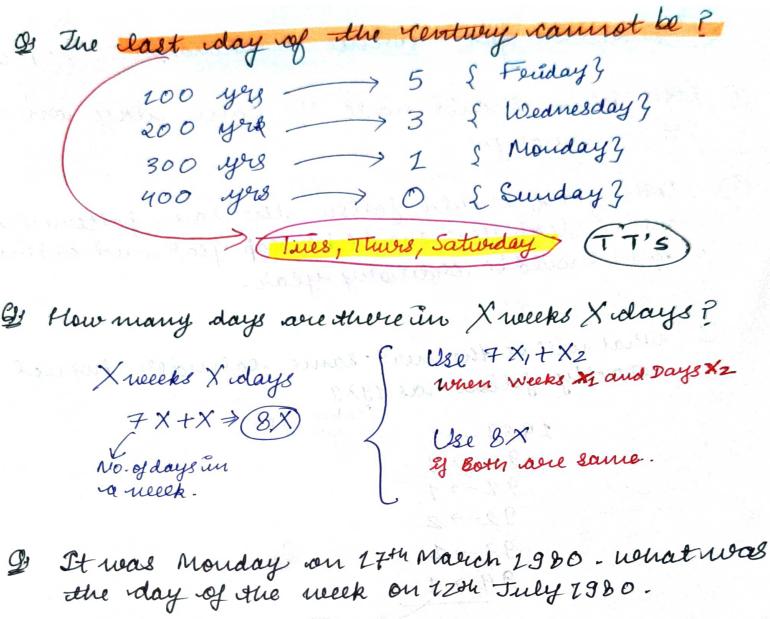
Remaids

A 11 => (17) 11 Aug 2010 -> Wednesday Saturday Ame 1 Aug: 1988 1987 1988 87-21=66 Jan .- 13 387 Feb -> 1 March 73 2 300 87 April -> 2 + 81LYX2 66NYX1 May >3 June -> 2 7 (203) July -> 3) Aug -(1) yr = 109 month = 27 127 = Rens D Monday day = 1 1 Aug 1988 -> Monday SAug 1988 - Founday 5,12,19,767 12 Aug 1988 7 Feriday 19 Aug 1988 >) Faiday 26 Aug 1988 > Fonday AM

16 July 2000 -> Sunday July -> 15 Aug -> 3 (15) Sep -> 2 Oct >3 Nov >2 Dec -> 20 20 Dec 2000 Wednesday Ans aisi 365) I odd days 26 Jan - Fanday 8161 Jan 75 Feb -> 1 March > 3 April -> 2 May >3 June -> 2 July -> 3 Aug -> 15 15 Aug L 1 Jan 0001 Monday 1 Jan 0401 monday 21 stantiony 1 Jan 2001 Monday

```
for self Rurpose
                          TRICKS
Sunday Monday Tuesday Wed Thurs Fedday Saturday & Days
Saronth ?
                          * 1 week - 77 days
                            1 year > 52 weeks + '1'oddday
  J
  F
                          * leap year 752 weeks + 2 old day
  M
                         A Oudinary year -> 28 Feb
  A
                          * leap year -> 29 Feb
  M
  J
                   [year]
                     1600 - 1699 \longrightarrow 6
  S
                      1700 - 1799 ->
  0
        37
                     1800 - 1899 -> 2
  N
                      1900-1999
   D
                     2000-2099-> 6
26 th Jan 1947 (?)
                              5th oct 2016
                                       Teh LY hai Toh Last
1. Last two digit
                    47
                                       mei aaya ma day se
2. Divide by 4
                                 04
                                       1-11 kaoma hota hai
                    11
   (Take quotient)
                                       lekin woh -1 strf
                                       Jan, Feb Ke lige
 3. Take the date
                   26
                                       Karma hota hai
 4. Takeno, of the M
                              31 > 131 => Wednesday
 5. Take no of the Y
 6. Divide by 7 > 84 => 18 => Sunday)
```

21 2904 Feb 2012 because it is a leap year in the ques and also month is February. 03 03 4-1=3= Wednesday 06 Today is monday, After 53 30 days ût wellbe & what dates of May 2002 Today > monday which Monday Fall. ng 30 wednesday 1# May 2002 1 Wen 2 Thurs 3 For 3 Sat Jan 4, 2016 > Monday Jan 4, 2017 3 (?) Suy Jan 4,2016 -> Monday (6,13,20,27) (LY) +2 Jan 4, 2017 Wednesday, 91 1 March 2006 = Wednesday Normal Year -> Lodd days leap years -> 2 oold days 2 March 2010 falls ? 2007 71 gap = 4 yes ned 2006 2010 2008 72 oor 2009 71 mordays! SNY LLY 3) add days buled +5 3×1 + 1×2 providay I' Today & monday, after $\frac{2}{3} = 0$ 64 daysid will be? Of 854 March 2006 - wednesday 2008 A Godd day 7)64 monday + 1 844 March 2005→(?) 2005-10dd day treduesday 1 (Tuesday Tresday

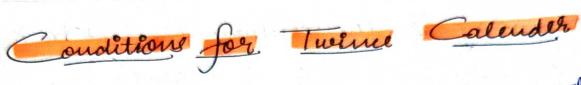


$$\frac{14+30+31+30+12}{7}_{12mJuly} = \frac{117}{7} = 5$$

Monts > Saturday

& Radha celebrated her needding anniversary on Tuesday Sotu Sept 1997, when will she celebrated her nextweeddi ausversary von the same day? 1997+6yrs => (2003)

$$\begin{array}{c}
 1998 \longrightarrow 1 \\
 1999 \longrightarrow 1 \\
 2000 \longrightarrow 2 \\
 2001 \longrightarrow 1 \\
 2003 \longrightarrow 1 \\
 2003 \longrightarrow 1
 \end{array}$$





purpose

1 Both years should have the same day con 1st Tramady.

Both years should follow the same pattern the means cleap year should be cleap year and ordinary year

I what will be the next same calender turnel cocactly follow as 1989.
[Ordinary]

$$1989 \rightarrow 1$$
 year

$$90 \rightarrow 1$$

(OAdinary year)

* Key points

Ly+1

(+6)

LY+2

LY+3