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In [4]: # Leap year or not
n=int(input('Enter a year: '))
if n%100==0 and n%400==0:
    print('Leap year')
elif n%100==0 and n%400!=0:
    print('not leap year')
elif n%4==0:
    print('leap year')
else:
    print('not leap year')
```

Enter a year1200
Leap year

```
In [12]: print('Enter a number in the range 1 - 7')
n=int(input())
if n==1:
    print("SUNDAY")
elif n==2:
    print("MONDAY")
elif n==3:
    print("THUESDAY")
elif n==4:
    print("WEDNESDAY")
elif n==5:
    print("THURSDAY")
elif n==6:
    print("FRIDAY")
elif n==7:
    print("SATURDAY")
else:
    print('Wrong input')
```

Enter a number in the range 1 - 7
4
WEDNESDAY

```
In [22]: #program to display grade for exam
n=int(input('Enter the percentage of mark:'))
if n>90 and n<=100:
    print('A grade')
elif n>75 and n<=90:
    print('B grade')
elif n>65 and n<=75:
    print('C grade')
elif n>50 and n<=75:
    print('D grade')
elif n>0 and n<=50:
    print('failed')
else:
    print('pls enter a valid input')
```

Enter the percentage of mark:51
D grade

```
In [27]: #calculator
print('enter 1 for multiplication')
print('enter 2 for addition')
print('enter 3 for subtraction')
print('enter 4 for division')
print('enter 5 for remainder')
n=int(input('Enter your option : '))
if n==1:
    x=int(input('Enter first number: '))
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y=int(input('Enter second number: '))
print("product :",x*y)
elif n==2:
    x=int(input('Enter first number: '))
    y=int(input('Enter second number: '))
    print('sum :',x+y)
elif n==3:
    x=int(input('Enter first number: '))
    y=int(input('Enter second number: '))
    print('result :',x-y)
elif n==4:
    x=int(input('Enter first number: '))
    y=int(input('Enter second number: '))
    print("result :",x/y)
elif n==5:
    x=int(input('Enter first number: '))
    y=int(input('Enter second number: '))
    print("reminder :",x%y)
else:
    print('input not valid')

```

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enter 1 for multiplication
enter 2 for addition
enter 3 for subtraction
enter 4 for division
enter 5 for remainder
Enter your option : 1
Enter first number: 100
Enter second number: 54
product : 5400

```

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In [54]: # sort 3 numbers and display in ascending order
a=int(input('enter first no: '))
b=int(input('enter second no: '))
c=int(input('enter third no: '))
print('The numbers in ascending order')
if a>b and a>c:
    if b>c:
        print(c,b,a)
    else:
        print(b,c,a)
elif b>a and b>c:
    if a>c:
        print(c,a,b)
    else:
        print(a,c,b)
elif c>a and c>b:
    if a>b:
        print(b,a,c)
    else:
        print(a,b,c)

```

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enter first no: 492
enter second no: 2
enter third no: 45
The numbers in ascending order
2 45 492

```

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In [53]: n=int(input('enter a number: '))
temp=n
i=0
# to calculate the lenght of number
while(temp//10!=0):
    i=i+1
    temp=temp//10

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#print(i)

# to reverse the number
sum=0
while i>=0:
    rem=n%10
    sum=sum+rem*(10**i)
    n=n//10
    i=i-1
print(sum)
```

enter a number: 12345678
87654321

In []:

In []: