

```
In [1]: #Apply arithmetic, relational, bitwise, comparison, membership and identity operators on
a=int(input('Enter the No.'))
b=int(input('Enter the No.'))
print(a+b)
a==b
if(a>b):
    print('Greater')
else:
    print('Smaller')
```

Enter the No.5  
Enter the No.4  
9  
Greater

```
In [13]: #Wap to check whether the sum of any three digits is even or odd. if number entered
n=int(input('Enter the No.'))
s=0
if(n>99 and n<1000):
    print("3 Digit Number")
    while(n!=0):
        r=n%10
        s=s+r
        n=n//10
    if(s%2==0):
        print("Even no.")
    else:
        print("Odd no.")
else:
    print("Not a 3 digit No.")
```

Enter the No.100  
3 Digit Number  
Odd no.

```
In [14]: # A school has the following rules for grading system:
# a) less than 30-Fail to
# b) 30 to 40 - E
# c) 41 to 50 - D
# d) 51 to 60 - C
# e) 61 to 80 - B
# f) above 80 - A
# g) above 100 - invalid grade
n=int(input('Enter the Marks:-'))
if(n<30):
    print('Fail')
elif(n>30 and n<40):
    print('E grade')
elif(n>40 and n<50):
    print('D grade')
elif(n>50 and n<60):
    print('C grade')
elif(n>60 and n<80):
    print('B grade')
elif(n>80):
    print('A grade')
else:
    print('Invalid Grade')
```

Enter the Marks:-99  
A grade

In [17]:

```
#Wap to display the Largest and second Largest number from the five numbers stored i
a=int(input('Enter the no.:- '))
b=int(input('Enter the no.:- '))
c=int(input('Enter the no.:- '))
d=int(input('Enter the no.:- '))
e=int(input('Enter the no.:- '))
high=-9999
sechigh=-9998
if(high<a):
    high=a
if(high<b):
    sechigh=high
    high=b
elif(sechigh<b):
    sechigh=b
elif(high<c):
    sechigh=high
    high=c
elif(sechigh<c):
    sechigh=c
elif(high<d):
    sechigh=high
    high=d
elif(sechigh<d):
    sechigh=d
elif(high<e):
    sechigh=high
    high=e
elif(sechigh<e):
    sechigh=e
print('Highest No.',high)
print('Second Highest No.',sechigh)
```

```
Enter the no.:- 5
Enter the no.:- 4
Enter the no.:- 6
Enter the no.:- 2
Enter the no.:- 1
Higest No. 5
Second Highest No. 4
```

In [23]:

```
#Wap to get the difference between a given number and 17,if the number is greater th
n=int(input('Enter the no.'))
if(n>17):
    d=n-17
    print(2*d)
else:
    d=17-n
    print(d)
```

```
Enter the no.20
6
```

In [25]:

```
#Wap to test whether a number is within 100 of 1000or2000
n=int(input('Enter the no.:- '))
if((1000-n<=100)or(2000-n<=100)):
    print('True')
else:
    print('False')
```

```
Enter the no.:- 2
False
```

