Task 1:

Make a program in which user enter his total marks and obtained marks then display student is pass or fail

```
In [7]:   1  total_marks=int(input('enter your total marks '))
          2  obtained_marks=float(input('enter your obtained marks '))
          3  passing_marks=total_marks/2    #passing criteria is selected 50% of total m
          4  if (obtained_marks>=passing_marks):
          5      print('congrats! you pass this exam')
          6  else:
          7      print('best of luck for next time you fail this exam')
          8
```

```
enter your total marks 1100
enter your obtained marks 980
congrats! you pass this exam
```

Task 2:

Make a calculator which suggest your grades on the behalf of marks. (Hint 80 :A, 70:B, 60:C, 50:D)

```
In [29]:   1  marks=float(input('enter your marks '))
           2  if (marks>=85):
           3      print('you got Grade A+ ')
           4  elif(marks>80 and marks<85):
           5      print('you got Grade A- ')
           6  elif(marks>75 and marks<80):
           7      print('you got Grade B+ ')
           8  elif(marks>70 and marks<75):
           9      print('you got Grade B ')
          10  elif(marks>65 and marks<70):
          11      print('you got Grade C ')
          12  elif(marks>60 and marks<65):
          13      print('you got Grade D ')
          14  elif(marks>55 and marks<60):
          15      print('you got Grade E ')
          16  else:
          17      print('you got Grade F ')
          18
          19
```

```
enter your marks 78.9
you got Grade B+
```

Task 3:

Make a program in which if single "F" comes then show total result will be "Failed"

In [21]:
```python
1  grades=input('enter the obtained grade ')
2  grades_list=grades.split(',')
3  if 'F' in grades_list:
4      print('fail')
5  else:
6      print('pass')
```

```
enter the obtained grade F
fail
```

Task 4 :

Make a program in which if user enter obtain mark above then subject total marks then display error.

In [27]:
```python
1  total_marks=int(input('enter total marks '))
2  obtained_marks=float(input('enter obtained marks '))
3  if (obtained_marks>total_marks):
4      print('Error! obtained marks can never be greater than total marks')
5  else:
6      print('no error detected')
```

```
enter total marks 1100
enter obtained marks 889.5
no error detected
```