Ferdousi Begum

Business analytics HW

```
In [20]:
 1 #For loop
 3 balance = 0
 4 deposit = 20500
 6 age = 22
 7 retire_age = 65
 8 years_to_retirement = retire_age - age
10 rate = 13.5
11 real_rate = rate*0.01
12
13 i = 0
14
15 for year in range(years_to_retirement):
        balance = (balance + deposit)*(1 + real_rate)
16
17
        i += 1
18 print(balance, i)
19 print("At retirement age, I will have ${}".format(balance))
20
```

39752011.53604165 43 At retirement age, I will have \$39752011.53604165

```
In [21]:
 1 #While loop
 3 balance = 0
 4 deposit = 20500
 6 age = 22
 7
 8 rate = 13.5
 9 real_rate = rate*0.01
10
11 retirement_value = 35000000
12 while balance < retirement_value:
13
        balance = (balance + deposit)*(1 + real_rate)
14
        age += 1
15
16 print("I will have {} at {} years old.".format(balance, age))
```

I will have 35003298.71016885 at 64 years old.