

DAY 4

OUTPUT SCREENSHOTS

1) 1) Create a Doctor class with details

Id, Name, Age, Exp, Qualification, Speciality

2) Create an array of doctors

3) Print the array

4) Given a speciality print the doctor details in it

```
Enter doctor's ID:
101
Enter doctor's name:
Ash
Enter doctor's age:
30
Enter doctor's experience:
5
Enter doctor's speciality:
Cardiology
Enter doctor's qualification:
MD
Enter doctor's ID:
102
Enter doctor's name:
Ricky
Enter doctor's age:
45
Enter doctor's experience:
10
Enter doctor's speciality:
General Physician
Enter doctor's qualification:
MD
```

```
Doctor ID:      101
Doctor Name:    Ash
Doctor Age:     30
Doctor Experience: 5
Doctor Speciality: Cardiology
Doctor Qualification: MD
Doctor ID:      102
Doctor Name:    Ricky
Doctor Age:     45
Doctor Experience: 10
Doctor Speciality: General Physician
Doctor Qualification: MD
Enter the speciality to be searched:
Cardiology
Doctor ID:      101
Doctor Name:    Ash
Doctor Age:     30
Doctor Experience: 5
Doctor Speciality: Cardiology
Doctor Qualification: MD
```

2) 4477468343113002

2003113438647744 - Reverse number

$2 + 0 \times 2 + 0 + 3 \times 2 + 1 + 1 \times 2 + 3 + 4 \times 2 + 3 + 8 \times 2 + 6 + 4 \times 2 + 7 + 7 \times 2 + 4 + 4 \times 2$ - Even position number $\times 2$

$2 + 0 + 0 + 6 + 1 + 2 + 3 + 8 + 3 + 16 + 6 + 8 + 7 + 14 + 4 + 8$ - 2 digits sum

$2 + 0 + 0 + 6 + 1 + 2 + 3 + 8 + 3 + 7 + 6 + 8 + 7 + 5 + 4 + 8$ - total

$70 \% 10 == 0$ then valid

```
Enter ID to be validated:  
4477468343113002  
This is a valid ID number!!
```