Problem 1

In [3]:

```
a = int(input('please enter number 1:'))
b = int(input('please enter number 2:'))
if a % 2== 0:
    print('Even')
else:
    print('odd')
if b % 2== 0:
    print('Even')
else:
    print('odd')
```

```
please enter number 1:2
please enter number 2:5
Even
odd
```

Problem 2

In [5]:

```
q = int(input('please enter number 1:'))
r = int(input('please enter number 2:'))
s = q + r
Even = 'Even'
Odd = 'Odd'
if s % 2 == 0:
    print(Even)
else:
    print(Odd)
if s == Even:
    print ('Player with even wiins')
else:
    print('Player with odd wins')
```

```
please enter number 1:2
please enter number 2:3
Odd
Player with odd wins
```

Problem 3

In [7]:

```
import pandas as pan
```

In [20]:

```
D_Spend = [26,55,67,78,33,45,34,76,89,90]
ministrator = [12111,12311,13411,14511,15611,16711,17811,18911,19011,10911]
rketing_Spend = [9876,9765,3245,1425,6745,9745,4562,2563,8452,1423]
ate = ['New York', 'California', 'Florida','New York', 'California', 'Florida','New York', '
ofit = [1345678,123456,123456,1234567,76543,987654,98765,456743,73823,87652,]
```

In [21]:

```
d: ':RnD_Spend,'Administrator :' : Administrator,'Marketing_Spend :' : Marketing_Spend,'Stat
```

In [22]:

```
data
```

Out[22]:


```
{'RnD_Spend: ': [26, 55, 67, 78, 33, 45, 34, 76, 89, 90],
 'Administrator :': [12111,
  12311,
  13411,
  14511,
  15611,
  16711,
  17811,
  18911,
  19011,
  10911],
 'Marketing_Spend :': [9876,
  9765,
  3245,
  1425,
  6745,
  9745,
  4562,
  2563,
  8452,
  1423],
 'State :': ['New York',
  'California',
  'Florida',
  'New York',
  'California',
  'Florida',
  'New York',
  'California',
  'Florida',
  'New York'],
 'Profit :': [1345678,
  123456,
  123456,
  1234567,
  76543,
  987654,
  98765,
  456743,
  73823,
  87652]}
```


In [23]:

```
data = pan.DataFrame(data)
```

In [24]:

```
data
```

Out[24]:

	RnD_Spend:	Administrator :	Marketing_Spend :	State :	Profit :
0	26	12111	9876	New York	1345678
1	55	12311	9765	California	123456
2	67	13411	3245	Florida	123456
3	78	14511	1425	New York	1234567
4	33	15611	6745	California	76543
5	45	16711	9745	Florida	987654
6	34	17811	4562	New York	98765
7	76	18911	2563	California	456743
8	89	19011	8452	Florida	73823
9	90	10911	1423	New York	87652

In [33]:

```
data.to_excel('data_table.xlsx')
```

Problem 4

In [37]:

```
distance = int(input('Enter distance value here in Miles: '))
time = int(input('Enter time value here in Hours : '))
speed = distance / time
print('the object is travelling in ',speed,'Miles per Hour')
```

```
Enter distance value here in Miles: 50
Enter time value here in Hours : 2
the object is travelling in  25.0 Miles per Hour
```

In [ ]:

```

```