

IF

```
In [ ]: 1 # if evaluates either true or false
```

```
In [4]: 1 # Lets check a particular number is even or odd
2
3 number = int(input("Enter a number : "))
4
5 if number%2 == 0:
6     print("The number is even")
7
```

Enter a number : 6
The number is even

else

```
In [3]: 1 number = int(input("Enter a number : "))
2
3 if number%2 == 0:
4     print("The number is even")
5 else:
6     print("The number is odd")
```

Enter a number : 13
The number is odd

if elif else

```
In [5]: 1 # ask two numbers from user, find which number is greater,small
```

```
In [9]: 1 number_1 = int(input("Enter 1st number : "))
2 number_2 = int(input("Enter 2nd number : "))
3
4 if number_1 == number_2:
5     print("Both the numbers are equal")
6 elif number_1>number_2:
7     print("your 1st number is greater")
8 else:
9     print("Your 2nd number is greater")
```

Enter 1st number : 30
Enter 2nd number : 40
Your 2nd number is greater

```
In [10]: 1 # if-elif ladder
```

```
In [21]: 1 marks = int(input("enter yout marks"))
          2
          3 if marks<0:
          4     print("entered marks are invalid")
          5 elif marks>100:
          6     print("entered marks are invalid")
          7 elif marks<35:
          8     print("Try again")
          9 elif marks>=35 and marks<50:
         10     print("you got 2nd class")
         11 elif marks>=50 and marks<70:
         12     print("you got 1st class")
         13 elif marks>=70 and marks<90:
         14     print("you got distinction")
         15 elif marks>=90 and marks<=100:
         16     print("Merittttttt.....")
```

enter yout marks67
you got 1st class

```
In [22]: 1 # Nested if
```

```
In [ ]: 1 # within one if we may have another if
```

```
In [29]: 1 num = int(input("enter a number : "))
          2
          3 if num>= 0:
          4
          5     if num == 0:
          6         print("Its a zero")
          7     else:
          8         print("Its a positive number")
          9 else:
         10     print("its a negative number")
```

enter a number : -10
its a negative number

```
In [31]: 1 # Account balance check algorithm
```

```
In [ ]: 1 # card number
          2 # pin
          3 # print balance
```

```
In [34]: 1 card = int(input("enter your card number: "))
          2
          3 balance = 100000
          4
          5 if card == 1234:
          6     pin = int(input("enter your pin number: "))
          7     if pin == 7777:
          8         print("Your account balance is : ",balance)
          9     else:
         10         print("You have entered wrong PIN")
         11 else:
         12     print("You have entered wrong Card number ")
```

```
enter your card number: 1234
enter your pin number: 7777
Your account balance is : 100000
```

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In [ ]: 1
```

```
In [ ]: 1
```

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In [ ]: 1
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In [ ]: 1
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In [ ]: 1
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In [ ]: 1
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In [ ]: 1
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