else

else is a keyword

else will not accept any condition

else is dependent on if

if accepts only one else

```
bike_color = 'red'
if bike_color == 'yellow':
  print('your bike is in yellow color')
else:
  print('your bike is not in yellow color')
```

```
your bike is not in yellow color
```

```
money = 100
if money == 100:
  print(money,'is equal to 100')
else:
  print(money,'is not equal to 100')
```

```
100 is equal to 100
```

nested condition

```
money = 80
if money == 100:
  print(money,'is equal to 100')
else:
  if money < 100:
    print(money,'is lessthan 100')
  else:
    print(money,'is grater than 100')
```

ATM

```
amount = 2900
print('2000 notes :',amount//2000)
amount = amount % 2000
print('500 notes :',amount//500)
amount = amount % 500
print('200 notes :',amount//200)
amount = amount % 200
print('100 notes :',amount//100)
amount = amount % 100
```

```
2000 notes : 1
500 notes : 1
200 notes : 2
100 notes : 0
```

```
amount = 3900
if amount >= 2000:
  print('2000 notes :',amount // 2000)
  amount = amount % 2000
if amount >= 500:
  print('500 notes :',amount // 500)
  amount = amount % 500
if amount >= 200:
  print('200 notes :',amount // 200)
  amount = amount % 200
if amount >= 100:
  print('100 notes :',amount // 100)
  amount = amount % 100
```

```
2000 notes : 1
500 notes : 3
200 notes : 2
```

```
amount = input('Please enter valid amount : ')
amount = int(amount) # data type conversion
#print(amount,type(amount))
if amount % 100 == 0:
  if amount >= 2000:
    print('2000 notes :',amount // 2000)
    amount = amount % 2000
  if amount >= 500:
    print('500 notes :',amount // 500)
    amount = amount % 500
  if amount >= 200:
    print('200 notes :',amount // 200)
    amount = amount % 200
  if amount >= 100:
    print('100 notes :',amount // 100)
    amount = amount % 100
else:
  print(amount,'is invalid amout')
```

```
Please enter valid amount : lafjlasd
---------------------------------------------------------------------------
ValueError                                Traceback (most recent call last)
<ipython-input-20-676e8409ff41> in <module>
      1 amount = input('Please enter valid amount : ')
----> 2 amount = int(amount) # data type conversion
      3 #print(amount,type(amount))
      4 if amount % 100 == 0:
      5   if amount >= 2000:

ValueError: invalid literal for int() with base 10: 'lafjlasd'
```

SEARCH STACK OVERFLOW

```
amount = input('Please enter valid amount : ')
if amount.isdigit():
  amount = int(amount) # data type conversion
  #print(amount,type(amount))
  if amount % 100 == 0:
    if amount >= 2000:
      print('2000 notes :',amount // 2000)
      amount = amount % 2000
    if amount >= 500:
      print('500 notes :',amount // 500)
      amount = amount % 500
    if amount >= 200:
      print('200 notes :',amount // 200)
      amount = amount % 200
    if amount >= 100:
      print('100 notes :',amount // 100)
      amount = amount % 100
  else:
    print(amount,'is invalid amout')
else:
  print(amount,'is invalid data')
```

```
Please enter valid amount : jlflffsa
jlflffsa is invalid data
```

```
amount = input('Please enter valid amount : ')
if amount.isdigit():
  amount = int(amount) # data type conversion
  #print(amount,type(amount))
  if amount % 100 == 0:
    if amount >= 2000:
      print('2000 notes :',amount // 2000)
      amount = amount % 2000
    if amount >= 500:
      print('500 notes :',amount // 500)
      amount = amount % 500
    if amount >= 200:
      print('200 notes :',amount // 200)
      amount = amount % 200
    if amount >= 100:
      print('100 notes :',amount // 100)
      amount = amount % 100
  else:
    print(amount,'is invalid amout')
else:
  print(amount,'is invalid data')
```

```
Please enter valid amount : -2700
-2700 is invalid data
```

✓ 5s completed at 1:39 PM