python_fundamentals

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1 Fundamentals of python Programming

1.1 Selection statements

1.1.1 if statement

```python
[1]: x = 5
     if (x==5):
         print('Equal 5')
     elif x>5:
         print('Greater than 5')
     elif x<5:
         ('Less than 5')
```

```
Equal 5
```

1.1.2 for loop

```python
[6]: for a in range (3,10):
         print(a)
```

```
3
4
5
6
7
8
9
```

1.1.3 while loop

```python
[8]: ticket = 8
     while ticket >3:
         print ("Your ticket number is ",ticket)
         ticket -=1
```

```
Your ticket number is  8
Your ticket number is  7
Your ticket number is  6
```

```
Your ticket number is  5
Your ticket number is  4
```

1.1.4   Break, Continue, Pass

```
[10]: for letter in 'python3':
          if letter == 'o':
              break
          print(letter)
```

```
p
y
t
h
```

```
[11]: a =0
      while a<=5:
          a=a+1
          if a%2==0:
              continue
          print(a)
      print("End of Loop")
```

```
1
3
5
End of Loop
```

```
[14]: for i in [1,2,3,4,5,6,7,8,9]:
          if i==3:
              pass
              print("Pass when value is ", i)
          print(i)
```

```
1
2
Pass when value is  3
3
4
5
6
7
8
9
```

1.1.5 try and except

```python
astr = 'Robert Kigobe'
errorsms=''
try:
    istr = int(astr)    #error
except:
    istr=-1
    errorsms='\Incorrect entry'
print ("First Try:",istr,errorsms)
```

```
First Try: -1 \Incorrect entry
```