

## Activity 1 : What are some potential **runtime errors** with this program that can raise exceptions?

```
1  # accumulates all values in a data file
2  from pathlib import Path
3
4  def accumulate(filename):
5      sum = 0
6      my_path = Path(filename)
7      file = my_path.open("r")
8      for i in file:
9          sum = sum + int(i)
10     file.close()
11     return sum
12
13  def main():
14      data_file = input("Enter the data file name: ")
15      print(accumulate(data_file))
16
17  if __name__ == "__main__":
18      main()
```

file does not exist, i is not able to made into an integer, file doesn't have read permissions.

# Activity 2: Exceptions

- Come up with a code example **which** raises (throws) an exception
- Execute the program and identify the error
- Submit your error type to the poll  
IndexError: list index out of range

**PollEv.com**  
**/thomasyeh123**



# Trust but Verify

```
def exception_v1(filename):
```

```
    s = 0
```

```
    file = open(filename, "r")
```

```
    for i in file:
```

```
        s = s + int(i)
```

```
    file.close()
```

```
    print(s)
```

```
def exception_v1(filename):
```

```
    s = 0
```

```
    try:
```

```
        file = open(filename, "r")
```

```
    except Exception as e:
```

```
        print(e)
```

```
    for i in file:
```

```
        if i.isdigit():
```

```
            s = s + int(i)
```

```
        else:
```

```
            print("File reading no
```

```
    file.close()
```

```
    print(s)
```

File may not be found, i may not be a number.