

what are Exceptions and types of error

- Exceptions are runtime error

Syntax error :-

If there is the typing mistake in the program then it will show syntax error

```
if x>y
    print("something")
```

In if statement :(colon) is missing and in print indentation is missing

This types of errors is said as syntax error. If there is syntax error then the program will not run

Logical error :-

```
a = 20
```

```
b = 7
```

```
c = 2
```

```
d = a / b-c
```

```
d = 20/7-2 = 4
```

```
a = int(input('Enter first number'))
b = int(input('Enter second number'))
c = int(input('Enter third number'))

d = a // b - c

print(d)
```

```
Enter first number20
Enter second number7
Enter third number2
0
```

How can we correct this logical error . By adding parentheses to it

```
d = a // (b-c)
```

By doing this the answer will be 4