Error handling allows programs to continue running even when encountering issues.

```
1. try-except Block
try:
  x = int("abc")
except ValueError:
  print("Invalid input!")
2. Handling Multiple Exceptions
try:
  x = 10 / 0
except ZeroDivisionError:
  print("Cannot divide by zero!")
except ValueError:
  print("Value error!")
3. try-except-else
try:
  number = int("42")
except ValueError:
  print("Error occurred")
else:
  print("Conversion successful:", number)
```

```
4. try-finally
file = None
try:
  file = open("example.txt")
  content = file.read()
finally:
  if file:
     file.close()
5. Raising Exceptions
def set_age(age):
  if age < 0:
     raise ValueError("Age cannot be negative")
  print("Age set to", age)
set_age(25) # Valid
# set_age(-1) would raise ValueError
```