
```
1 # Validates email address by checking for @
2
3 email = input("What's your email? ").strip()
4
5 if "@" in email:
6     print("Valid")
7 else:
8     print("Invalid")
```

```
1 # Validates email address by checking for . too
2
3 email = input("What's your email? ").strip()
4
5 if "@" in email and "." in email:
6     print("Valid")
7 else:
8     print("Invalid")
```

```
1 # Validates email address by checking username and domain separately
2
3 email = input("What's your email? ").strip()
4
5 username, domain = email.split("@")
6
7 if username and "." in domain:
8     print("Valid")
9 else:
10    print("Invalid")
```

```
1 # Validates email address by checking whether domain ends with .edu
2
3 email = input("What's your email? ").strip()
4
5 username, domain = email.split("@")
6
7 if username and domain.endswith(".edu"):
8     print("Valid")
9 else:
10    print("Invalid")
```

```
1 # Validates email address by checking for @ with regex
2
3 import re
4
5 email = input("What's your email? ").strip()
6
7 if re.search("@", email):
8     print("Valid")
9 else:
10    print("Invalid")
```

```
1 # Adds .*
2
3 import re
4
5 email = input("What's your email? ").strip()
6
7 if re.search(".*@.*", email):
8     print("Valid")
9 else:
10    print("Invalid")
```

```
1 # Changes * to +
2
3 import re
4
5 email = input("What's your email? ").strip()
6
7 if re.search(".*@.*", email):
8     print("Valid")
9 else:
10    print("Invalid")
```

```
1 # Adds \.edu
2
3 import re
4
5 email = input("What's your email? ").strip()
6
7 if re.search(r".+@.+\.edu", email):
8     print("Valid")
9 else:
10    print("Invalid")
```

```
1 # Adds ^ and $ to regex
2
3 import re
4
5 email = input("What's your email? ").strip()
6
7 if re.search(r"^.+@.+\.edu$", email):
8     print("Valid")
9 else:
10    print("Invalid")
```

```
1 # Adds character class
2
3 import re
4
5 email = input("What's your email? ").strip()
6
7 if re.search(r"^[a-zA-Z0-9_]+@[a-zA-Z0-9_]+\\.edu$", email):
8     print("Valid")
9 else:
10    print("Invalid")
```

```
1 # Replaces character class with \w
2
3 import re
4
5 email = input("What's your email? ").strip()
6
7 if re.search(r"^\w+@\w+\.edu$", email):
8     print("Valid")
9 else:
10    print("Invalid")
```

```
1 # Adds re.IGNORECASE
2
3 import re
4
5 email = input("What's your email? ").strip()
6
7 if re.search(r"^\w+@\w+\.edu$", email, re.IGNORECASE):
8     print("Valid")
9 else:
10    print("Invalid")
```

```
1 # Adds optional subdomain
2
3 import re
4
5 email = input("What's your email? ").strip()
6
7 if re.search(r"^\w+@(\w+\.)?\w+\.edu$", email, re.IGNORECASE):
8     print("Valid")
9 else:
10    print("Invalid")
```

```
1 # Reformats "last, first" as "first last"
2
3 name = input("What's your name? ").strip()
4 if "," in name:
5     last, first = name.split(", ")
6     name = f"{first} {last}"
7 print(f"hello, {name}")
```

```
1 # Uses re.search
2
3 import re
4
5 name = input("What's your name? ").strip()
6 matches = re.search(r"^(.+), (.+)$", name)
7 if matches:
8     last, first = matches.groups()
9     name = first + " " + last
10 print(f"hello, {name}")
```

```
1 # Uses .group
2
3 import re
4
5 name = input("What's your name? ").strip()
6 matches = re.search(r"^(.+), (.+)$", name)
7 if matches:
8     name = matches.group(2) + " " + matches.group(1)
9 print(f"hello, {name}")
```

```
1 # Uses walrus operator
2
3 import re
4
5 name = input("What's your name? ").strip()
6 if matches := re.search(r"^(.+), (.+)$", name):
7     name = matches.group(2) + " " + matches.group(1)
8 print(f"hello, {name}")
```

```
1 # Extracts Twitter username from URL using str.replace
2
3 url = input("URL: ").strip()
4
5 username = url.replace("https://twitter.com/", "")
6 print(f"Username: {username}")
```

```
1 # Extracts Twitter username from URL using str.removeprefix
2
3 url = input("URL: ").strip()
4
5 username = url.removeprefix("https://twitter.com/")
6 print(f"Username: {username}")
```

```
1 # Uses re.sub
2
3 import re
4
5 url = input("URL: ").strip()
6
7 username = re.sub(r"^https://twitter\.com/", "", url)
8 print(f"Username: {username}")
```

```
1 # Allows for http, no protocol, and www.
2
3 import re
4
5 url = input("URL: ").strip()
6
7 username = re.sub(r"^(https?://)?(www\.)?twitter\.com/", "", url)
8 print(f"Username: {username}")
```

```
1 # Uses capture group
2
3 import re
4
5 url = input("URL: ").strip()
6
7 matches = re.search(r"^https?://(?:www\.)?twitter\.com/(.+)$", url, re.IGNORECASE)
8 if matches:
9     print("Username:", matches.group(1))
```

```
1 # Ignores query and fragment
2
3 import re
4
5 url = input("URL: ").strip()
6
7 matches = re.search(r"^https?://(?:www\.)?twitter\.com/([a-z0-9_]+)", url, re.IGNORECASE)
8 if matches:
9     print("Username:", matches.group(1))
```