

```
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(".*@.*\.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("^.+@.+\.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("[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("^\\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("^\\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("^\\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("^(.+), (.+)$", 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("^(.+), (.+)$", 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("^(.+), (.+)$", 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("^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("^(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("^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("^https?:/(?:www\.)?twitter\.com/([a-z0-9_]+)", url, re.IGNORECASE)
8  if matches:
9      print("Username:", matches.group(1))
```