
```
1  # Demonstrates import and random.choice
2
3  import random
4
5  coin = random.choice(["heads", "tails"])
6  print(coin)
```

```
1  # Demonstrates from
2
3  from random import choice
4
5  coin = choice(["heads", "tails"])
6  print(coin)
```

```
1  # Demonstrates randint
2
3  import random
4
5  number = random.randint(1, 10)
6  print(number)
```

```
1  # Demonstrates shuffle
2
3  import random
4
5  cards = ["jack", "queen", "king"]
6  random.shuffle(cards)
7  for card in cards:
8      print(card)
```

```
1 # Demonstrates statistics
2
3 import statistics
4
5 print(statistics.mean([100, 90]))
```

```
1 # Demonstrates sys.argv
2
3 import sys
4
5 print("hello, my name is", sys.argv[1])
```

```
1  # Demonstrates IndexError
2
3  import sys
4
5  try:
6      print("hello, my name is", sys.argv[1])
7  except IndexError:
8      print("Too few arguments")
```

```
1 # Adds error checking
2
3 import sys
4
5 if len(sys.argv) < 2:
6     print("Too few arguments")
7 elif len(sys.argv) > 2:
8     print("Too many arguments")
9 else:
10     print("hello, my name is", sys.argv[1])
```

```
1  # Demonstrates sys.exit
2
3  import sys
4
5  if len(sys.argv) < 2:
6      sys.exit("Too few arguments")
7  elif len(sys.argv) > 2:
8      sys.exit("Too many arguments")
9
10 print("hello, my name is", sys.argv[1])
```

```
1  # Demonstrates list slice
2
3  import sys
4
5  if len(sys.argv) < 2:
6      sys.exit("Too few arguments")
7
8  for arg in sys.argv[1:]:
9      print("hello, my name is", arg)
```

```
1  # Demonstrates pip-installed package
2
3  import cowsay
4  import sys
5
6  if len(sys.argv) == 2:
7      cowsay.cow("hello, " + sys.argv[1])
```

```
1  # Demonstrates a t-rex
2
3  import cowsay
4  import sys
5
6  if len(sys.argv) == 2:
7      cowsay.trex("hello, " + sys.argv[1])
```

```
1  # Demonstrates requests
2
3  import sys
4  import requests
5
6  if len(sys.argv) != 2:
7      sys.exit()
8
9  response = requests.get(
10     "https://itunes.apple.com/search?entity=song&limit=1&term=" + sys.argv[1]
11 )
12 print(response.json())
```

```
1  # Demonstrates json
2
3  import json
4  import sys
5  import requests
6
7  if len(sys.argv) != 2:
8      sys.exit()
9
10 response = requests.get(
11     "https://itunes.apple.com/search?entity=song&limit=1&term=" + sys.argv[1]
12 )
13 print(json.dumps(response.json(), indent=2))
```

```
1  # Demonstrates iterating over JSON
2
3  import json
4  import sys
5  import requests
6
7  if len(sys.argv) != 2:
8      sys.exit()
9
10 response = requests.get(
11     "https://itunes.apple.com/search?entity=song&term=" + sys.argv[1]
12 )
13 o = response.json()
14 for result in o["results"]:
15     print(result["trackName"])
```

```
1 def hello(name):  
2     print(f"hello, {name}")  
3  
4  
5 def goodbye(name):  
6     print(f"goodbye, {name}")
```

```
1  # Demonstrates own module
2
3  import sys
4
5  from sayings0 import hello
6
7  if len(sys.argv) == 2:
8      hello(sys.argv[1])
```

```
1  # Doesn't check __name__
2
3
4  def main():
5      hello("world")
6      goodbye("world")
7
8
9  def hello(name):
10     print(f"hello, {name}")
11
12
13  def goodbye(name):
14     print(f"goodbye, {name}")
15
16
17  main()
```

```
1  # Demonstrates own module
2
3  import sys
4
5  from sayings1 import hello
6
7  if len(sys.argv) == 2:
8      hello(sys.argv[1])
```

```
1  # Check __name__
2
3
4  def main():
5      hello("world")
6      goodbye("world")
7
8
9  def hello(name):
10     print(f"hello, {name}")
11
12
13  def goodbye(name):
14     print(f"goodbye, {name}")
15
16
17  if __name__ == "__main__":
18     main()
```

```
1  # Demonstrates own module
2
3  import sys
4
5  from sayings2 import hello
6
7  if len(sys.argv) == 2:
8      hello(sys.argv[1])
```

```
1  # Demonstrates own module
2
3  import sys
4
5  from sayings2 import goodbye
6
7  if len(sys.argv) == 2:
8      goodbye(sys.argv[1])
```