
```
1  # Gets a number from the user
2
3  x = int(input("What's x? "))
4  print(f"x is {x}")
```

```
1  # Catches a ValueError
2
3  try:
4      x = int(input("What's x? "))
5      print(f"x is {x}")
6  except ValueError:
7      print("x is not an integer")
```

```
1  # Demonstrates a NameError
2
3  try:
4      x = int(input("What's x? "))
5  except ValueError:
6      print("x is not an integer")
7
8  print(f"x is {x}")
```

```
1  # Demonstrates else
2
3  try:
4      x = int(input("What's x? "))
5  except ValueError:
6      print("x is not an integer")
7  else:
8      print(f"x is {x}")
```

```
1  # Adds a loop
2
3  while True:
4      try:
5          x = int(input("What's x? "))
6      except ValueError:
7          print("x is not an integer")
8      else:
9          break
10
11 print(f"x is {x}")
```

```
1  # Adds functions, uses break and return
2
3
4  def main():
5      x = get_int()
6      print(f"x is {x}")
7
8
9  def get_int():
10     while True:
11         try:
12             x = int(input("What's x? "))
13         except ValueError:
14             print("x is not an integer")
15         else:
16             break
17     return x
18
19
20 main()
```

```
1  # Removes break
2
3
4  def main():
5      x = get_int()
6      print(f"x is {x}")
7
8
9  def get_int():
10     while True:
11         try:
12             x = int(input("What's x? "))
13         except ValueError:
14             print("x is not an integer")
15         else:
16             return x
17
18
19  main()
```

```
1  # Removes else
2
3
4  def main():
5      x = get_int()
6      print(f"x is {x}")
7
8
9  def get_int():
10     while True:
11         try:
12             return int(input("What's x? "))
13         except ValueError:
14             print("x is not an integer")
15
16
17  main()
```



```
1  # Adds pass
2
3
4  def main():
5      x = get_int()
6      print(f"x is {x}")
7
8
9  def get_int():
10     while True:
11         try:
12             return int(input("What's x? "))
13         except ValueError:
14             pass
15
16
17  main()
```

```
1  # Adds prompt
2
3
4  def main():
5      x = get_int("What's x? ")
6      print(f"x is {x}")
7
8
9  def get_int(prompt):
10     while True:
11         try:
12             return int(input(prompt))
13         except ValueError:
14             pass
15
16
17  main()
```