
```
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()
```