```
Start
```

Ask user to enter their name

Loop: Ask for valid age input

Is age a number?

No

Yes

Print: Invalid input

Is age between 0 and 150?

No

Yes

Print: Please enter a valid age

Break loop and proceed

Get current year using datetime

Calculate year_when_100 = current year + (100 - age)

Print final message with name and year

End

```python
from datetime import datetime

def main():
    name = input("Enter your name: ").strip()
    while True:
        try:
            age = int(input("Enter your age: ").strip())
            if age < 0 or age > 150:
                print("Please enter a valid age between 0 and 150.")
                continue
            break
        except ValueError:
            print("Invalid input. Please enter a number for your age.")
    current_year = datetime.now().year
    year_when_100 = current_year + (100 - age)
    print(f"\nHello {name}, you will turn 100 years old in the year {year_when_100}.")

if __name__ == "__main__":
    main()
```