```python
#Password Generator with Validation, Loops, and Conditions
import random
import string

def generate_password():
    # Step 1: Ask for password length
    while True:
        try:
            length = int(input("Enter desired password length (minimum 6): "))
            if length < 6:
                print("Password length must be at least 6.")
            else:
                break
        except ValueError:
            print("Invalid input! Please enter a valid number.")

    # Step 2: Define character sets
    letters = string.ascii_letters
    digits = string.digits
    symbols = string.punctuation

    # Step 3: Ensure at least one letter and one number
    password = [
        random.choice(letters),
        random.choice(digits)
    ]

    # Fill the rest of the password
    all_chars = letters + digits + symbols
    while len(password) < length:
        password.append(random.choice(all_chars))

    # Step 4: Shuffle to make it random
    random.shuffle(password)

    # Step 5: Join and display password
    final_password = ''.join(password)
    print("Generated Password:", final_password)

# Run the function
generate_password()
```

```
→   Enter desired password length (minimum 6): abc@123
    Invalid input! Please enter a valid number.
    Enter desired password length (minimum 6): 12345
    Generated Password: 9UM\wWWy+{XGl~6DF0eJ\s|QSL}DLgvs,}U7BN:xp)$ym2fNzo:pU99D~;Sgr2ZHJw?[#EKhtmm&9!p|Wr@NwxB/q
```

◀ ⬤   ▶

Start coding or generate with AI.