1. Print the first 10 natural numbers using for loop

```
for i in range(1, 11):
print(i)
```

2. Python program to check if the given string is a palindrome

```
string = input("Enter a string: ")
if string == string[::-1]:
    print("The string is a palindrome.")
else:
    print("The string is not a palindrome.")
```

3. Python program to check if a given number is an Armstrong number

```
num = int(input("Enter a number: "))
sum_of_cubes = sum([int(digit) ** 3 for digit in str(num)])
if num == sum_of_cubes:
    print("The number is an Armstrong number.")
else:
    print("The number is not an Armstrong number.")
```

4. Python program to get the Fibonacci series between 0 to 50

```
a, b = 0, 1
while a <= 50:
print(a, end=" ")
a, b = b, a + b
```

5. Python program to check the validity of password input by users

```
import re
password = input("Enter a password: ")
if (len(password) >= 8 and
    re.search(r"[A-Z]", password) and
    re.search(r"[a-z]", password) and
    re.search(r"[0-9]", password) and
    re.search(r"[!@#$%^&*(),.?\":{}|<>]", password)):
    print("Password is valid.")
else:
    print("Password is invalid. It must be at least 8 characters long, and include an uppercase letter, a lowercase letter, a number, and a special character.")
```