```python
#1]Validate URL
import re

def validate_url(url):
    pattern = re.compile(
        r"^(https?://)?(www\.)?[\w-]+\.[\w.-]+(/[^\s]*)?$"
    )
    return bool(re.match(pattern, url))

# Test the URL validation

url = input("Enter the URL to validate: ")

if validate_url(url):
    print("Valid URL")
else:
    print("Invalid URL")

#2]Email Validation
import re

def validate_email(email):
    pattern = re.compile(r"^\w+([\.-]?\w+)*@\w+([\.-]?\w+)*(\.\w{2,3})+$")
    return bool(re.match(pattern, email))

# Test the email validation

email = input("Enter the email ID to validate: ")

if validate_email(email):
    print("Valid Email ID")
else:
    print("Invalid Email ID")

#3]Validate Password
import re

def validate_password(password):
    # Password must contain at least 8 characters, one uppercase letter, one
lowercase letter, and one digit
    pattern = re.compile(r"^(?=.*[a-z])(?=.*[A-Z])(?=.*\d)[\w!@#$%^&*-]{8,}$")
    return bool(re.match(pattern, password))
```

```
# Test the password validation

password = input("Enter the password to validate: ")

if validate_password(password):
    print("Valid Password")
else:
    print("Invalid Password")
```

Output: i)

```
Enter the URL to validate: https://www.flipkart.com/
Valid URL
Enter the email ID to validate: abcd@gmail.com
Valid Email ID
Enter the password to validate: Abcdefgh9
Valid Password
```

ii)

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Enter the URL to validate: https://www.flipkart.com/
Valid URL
Enter the email ID to validate: abcdgmail.com
Invalid Email ID
Enter the password to validate: abcdefg
Invalid Password
```