```
match_fun.py
import re
words = ('book', 'bookworm', 'Bible',
   'bookish', 'cookbook', 'bookstore', 'pocketbook')
pattern = re.compile(r'book')
for word in words:
   if re.match(pattern, word):
      print(f'The {word} matches')
fullmatch_fun.py
import re
words = ('book', 'bookworm', 'Bible',
   'bookish','cookbook', 'bookstore', 'pocketbook')
pattern = re.compile(r'book')
for word in words:
   if re.fullmatch(pattern, word):
      print(f'The {word} matches')
search_fun.py
import re
words = ('book', 'bookworm', 'Bible',
   'bookish','cookbook', 'bookstore', 'pocketbook')
pattern = re.compile(r'book')
for word in words:
   if re.search(pattern, word):
      print(f'The {word} matches')
```

```
dot_meta.py
import re
words = ('seven', 'even', 'prevent', 'revenge', 'maven',
   'eleven', 'amen', 'event')
pattern = re.compile(r'.even')
for word in words:
   if re.match(pattern, word):
      print(f'The {word} matches')
question_mark_meta.py
import re
words = ('seven', 'even', 'prevent', 'revenge', 'maven',
   'eleven', 'amen', 'event')
pattern = re.compile(r'.?even')
for word in words:
   if re.match(pattern, word):
      print(f'The {word} matches')
anchors.py
import re
sentences = ('I am looking for Jane.',
   'Jane was walking along the river.'.
   'Kate and Jane are close friends.')
pattern = re.compile(r'^Jane')
for sentence in sentences:
   if re.search(pattern, sentence):
      print(sentence)
```

```
exact_match.py
import re
words = ('book', 'bookworm', 'Bible',
   'bookish', 'cookbook', 'bookstore', 'pocketbook')
pattern = re.compile(r'^book$')
for word in words:
   if re.search(pattern, word):
      print(f'The {word} matches')
character_class.py
import re
words = ('a gray bird', 'grey hair', 'great look')
pattern = re.compile(r'gr[ea]y')
for word in words:
   if re.search(pattern, word):
      print(f'{word} matches')
named_character_class.py
import re
text = 'We met in 2013. She must be now about 27 years old.'
pattern = re.compile(r'\d+')
found = re.findall(pattern, text)
if found:
   print(f'There are {len(found)} numbers')
```

```
case_insensitive.py
import re
words = ('dog', 'Dog', 'DOG', 'Doggy')
pattern = re.compile(r'dog', re.IGNORECASE)
for word in words:
   if re.match(pattern, word):
       print(f'{word} matches')
alternations.py
import re
words = ("Jane", "Thomas", "Robert",
   "Lucy", "Beky", "John", "Peter", "Andy")
pattern = re.compile(r'Jane|Beky|Robert')
for word in words:
   if re.match(pattern, word):
       print(word)
finditer_fun.py
import re
text = 'I saw a fox in the wood. The fox had red fur.'
pattern = re.compile(r'fox')
found = re.finditer(pattern, text)
for item in found:
   s = item.start()
   e = item.end()
   print(f'Found {text[s:e]} at {s}:{e}')
```

```
capturing_groups.py
import re
content = '''The <code>Pattern</code> is a compiled
representation of a regular expression."
pattern = re.compile(r'(</?[a-z]*>)')
found = re.findall(pattern, content)
for tag in found:
   print(tag
emails.py
import re
emails = ("luke@gmail.com", "andy@yahoocom",
   "34234sdfa#2345", "f344@gmail.com")
pattern = re.compile(r'^[a-zA-Z0-9._-]+@[a-zA-Z0-9-]+\.[a-zA-Z.]{2,18}$')
for email in emails:
   if re.match(pattern, email):
      print(f'{email} matches')
   else:
      print(f'{email} does not match')
```