1. sorting\_array.py

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| **def** sorting\_array**(**arr\_abjad\_angka**):**    # Inisialisasi variable  arr\_abjad **=** **[]**  arr\_angka **=** **[]**  arr\_sorted **=** **[]**  # Memisahkan abjad dan angka  **for** i **in** arr\_abjad\_angka**:**  **if** isinstance**(**i**,** str**):**  arr\_abjad**.**append**(**i**)**  **elif** isinstance**(**i**,** int**):**  arr\_angka**.**append**(**i**)**  # Sorting list abjad dan list angka  arr\_abjad**.**sort**()**  arr\_angka**.**sort**()**    # Menggabungkan list abjad dan list angka  arr\_sorted **=** arr\_abjad **+** arr\_angka    # Mengembalikan nilai  **return** arr\_sorted  # Contoh implementasi fungsi  arr\_abjad\_angka **=** **[**12**,**9**,**30**,**"A"**,**"M"**,**99**,**82**,**"J"**,**"N"**,**"B"**]**  **print(**sorting\_array**(**arr\_abjad\_angka**))** |

1. pattern\_count.py

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| **def** pattern\_count**(**teks**,** pattern**):**    # Inisialisasi variable  count **=** 0    # Looping pada variable "teks"  **for** i **in** range**(**len**(**teks**)** **-** len**(**pattern**)** **+** 1**):**  **if** teks**[**i**:**i**+**len**(**pattern**)]** **==** pattern**:**  count **+=** 1    # Special case: Jika pattern kosong, maka count = 0  **if** pattern **==** ""**:**  count **=** 0  # Mengembalikan hasil  **return** count  # Contoh implementasi fungsi  teks **=** "palindrom"  pattern **=** "ind"  **print(**pattern\_count**(**teks**,** pattern**))**  teks **=** "abakadabra"  pattern **=** "ab"  **print(**pattern\_count**(**teks**,** pattern**))**  teks **=** "hello"  pattern **=** ""  **print(**pattern\_count**(**teks**,** pattern**))**  teks **=** "ababab"  pattern **=** "aba"  **print(**pattern\_count**(**teks**,** pattern**))**  teks **=** "aaaaaa"  pattern **=** "aa"  **print(**pattern\_count**(**teks**,** pattern**))**  teks **=** "hell"  pattern **=** "hello"  **print(**pattern\_count**(**teks**,** pattern**))** |

1. alphabet\_count.py

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| **def** alphabet\_count**(**text**):**  # Inisialisasi variable  alphabet\_counts **=** **{}**    # Looping pada variable "text"  **for** char **in** text**:**  **if** char**.**isalpha**():**  **if** char **in** alphabet\_counts**:**  alphabet\_counts**[**char**]** **+=** 1  **else:**  alphabet\_counts**[**char**]** **=** 1  # Membuat alphabet\_list  alphabet\_list **=** **[]**  **for** i **in** range**(**65**,** 91**):**  alphabet\_list**.**append**(**chr**(**i**))**  alphabet\_list**.**append**(**chr**(**i **+** 32**))**  # Filter alphabet dari key alphabet\_counts  filtered\_list **=** **[**element **for** element **in** alphabet\_list **if** element **in** list**(**alphabet\_counts**.**keys**())]**  # Sort key tiap alphabet  sorted\_counts **=** **{**j**:** alphabet\_counts**[**j**]** **for** j **in** filtered\_list**}**    # Mengembalikan hasil  **return** sorted\_counts  # Contoh implementasi fungsi  text **=** "Hello World"  alphabet\_counts **=** alphabet\_count**(**text**)**  **print(**alphabet\_counts**)**  # Contoh implementasi fungsi  text **=** "Bismillah"  alphabet\_counts **=** alphabet\_count**(**text**)**  **print(**alphabet\_counts**)**  # Contoh implementasi fungsi  text **=** "MasyaAllah"  alphabet\_counts **=** alphabet\_count**(**text**)**  **print(**alphabet\_counts**)** |