MONASH University

[Template for Applied Session submission]

FIT3143 2024 - Applied Session Week 2

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Task 3

{#include <stdio.h>

```
int main() {
    int i = 1;
    while (i <= 5) {
        printf("While loop count: %d\n", i);
        i++; // Increment i
    }
    for (int j = 1; j <= 5; j++) {
        printf("For loop count: %d\n", j);
    }
    return 0;
}
}
```

{Screenshots (if any)}

Task 5

{#include <stdio.h>

```
int main() {
    int number;
    printf("Enter a number: ");
    scanf("%d", &number);
    if (number < 0) {
        printf("The number is negative.\n");
    } else if (number == 0) {
        printf("The number is zero.\n");
    } else {
        printf("The number is positive.\n");
    }
    switch (number) {
        case 1:
            printf("You entered one.\n");
            break;
        case 2:
            printf("You entered two.\n");
            break;
```

```
        case 3:
            printf("You entered three.\n");
            break;
        default:
            printf("You entered a number other than 1, 2, or 3.\n");
            break;
    }
    return 0;
}
}
```

{Screenshots (if any)}

Task 7

```
{#include <stdio.h>

#include <ctype.h> // For isspace() function

int main() {
    int c, nw = 0;
    int in_word = 0;
    while ((c = getchar()) != EOF) {
        if (isspace(c)) {
            if (in_word) {
                nw++;
                in_word = 0;
            }
        } else {
            in_word = 1;
        }
    }
    if (in_word) {

        nw++;
    }
    printf("Number of words = %d\n", nw);
    return 0;
}
}
```

{Screenshots (if any)}

Task 11

```
{#include <stdio.h>
```

```
void multiply(int *a, int *b, int *result) {
    *result = (*a) * (*b);

}

int findMax(int *array, int size) {
    int max = array[0];
    for (int i = 1; i < size; i++) {
        if (array[i] > max) {
            max = array[i];
        }
    }
    return max;
}

int main() {

    int x = 4, y = 5, result;
    multiply(&x, &y, &result);
    printf("Multiplication of %d and %d is: %d\n", x, y, result);

    int numbers[] = {1, 2, 3, 4, 5};
    int size = sizeof(numbers)/sizeof(numbers[0]);
    int max = findMax(numbers, size);
    printf("The maximum value in the array is: %d\n", max);
    return 0;
}
}
```

{Screenshots (if any)}

Task 13

{*BValue returns 101 because BValue contains the address of AValue. Dereferencing BValue (*BValue) accesses the value stored at the address that BValue points to, which is AValue's value (101). }

{Screenshots (if any)}

{References - Optional}