TASK 2 :CODE SNIPPETS

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Q1.

```c
void solve() {
    char ch[10] = "abcdefghij";
    int ans = 0;

    for (int i = 0; i < 10; i++) {
        ans += (ch[i] - 'a');
    }

    printf("%d", ans);

int main() {
    solve();
    return 0;
}
```

OP : 45

Q2.

```c
struct School {
    int age, rollNo;
};

void solve() {
    struct School sc;
    sc.age = 19;        // Assign age
    sc.rollNo = 82;     // Assign roll number
    printf("%d %d", sc.age, sc.rollNo); // Print age and roll number
}

int main() {
    solve();
    return 0;
}
```

OP : 19 82

Q3.

```c
void solve() {
    int a[] = {1, 2, 3, 4, 5};
    int sum = 0;

    for (int i = 0; i < 5; i++) {
        if (i % 2 == 0) { // Even index
            sum += *(a + i);
        } else { // Odd index
            sum -= *(a + i);
        }
    }

    printf("%d", sum);
}

int main() {
    solve();
    return 0;
}
```

OP 3

Q4.

```c
void solve() {
    int x = 2;
    printf("%d", (x << 1) + (x >> 1));
}

int main() {
    solve();
    return 0;
}
```

OP : 5

Q5.

```c
#define VAL 10

int getValue() {
    return VAL;
}

int main() {
    const int result = getValue();
    printf("The value is: %d\n", result);
    return 0;
}
```

OP : 10

Q6.

```c
#include <stdio.h>
#define CUBE(x) x * x * x
void solve() {
    int ans = 216 / CUBE(3);
    printf("%d", ans);
}
int main() {
    solve();
    return 0;
}
```

OP : 24

Q7.

```c
#include <stdio.h>
void solve() {
    int n = 24;
    int l = 0, r = 100, ans = n;
    while(l <= r) {
        int mid = (l + r) / 2;
        if(mid * mid <= n) {
            ans = mid;
            l = mid + 1;
        } else {
            r = mid - 1;
        }
    }
    printf("%d", ans);
}
int main() {
    solve();
    return 0;
}
```

OP : 4

Q8.

```c
#include <stdio.h>
void solve() {
    int x = 1, y = 2;
    printf(x > y ? "Greater" : x == y ? "Equal" : "Lesser");
}
int main() {
    solve();
    return 0;
}
```

OP : lesser

Q9.

```c
#include <stdio.h>
void solve() {
    int first = 10, second = 20;
    int third = first + second;
    {
        int third = second - first;
        printf("%d ", third);
    }
    printf("%d", third);
}
int main() {
    solve();
    return 0;
}
```

OP : 10 30

Q10

```c
#include <stdio.h>
void solve() {
    printf("%d ", 9 / 2);
    printf("%f", 9.0 / 2);
}
int main() {
    solve();
    return 0;
}
```

OP 4.0 4.5

Q11.

```c
#include <stdio.h>
#include <stdbool.h>
void solve() {
    bool ok = false;
    printf(ok ? "YES" : "NO");
}
int main() {
    solve();
    return 0;
}
```

OP : NO

Q12

```c
#include <stdio.h>
#define VAL 3 * (2 + 6)
void solve() {
    int a = 10 + VAL;
    printf("%d", a);
}
int main() {
    solve();
    return 0;
}
```

OP 34

Q13.

```c
#include <stdio.h>
int main() {
    int a = 3, b = 5;
    int t = a;
    a = b;
    b = t;
    printf("%d %d", a, b);
    return 0;
}
```

OP 5 3

Q14

```c
#include <stdio.h>
void solve() {
    int ch = 2;
    switch(ch) {
        case 1: printf("1 ");
        case 2: printf("2 ");
        case 3: printf("3 ");
        default: printf("None");
    }
}
int main() {
    solve();
    return 0;
}
```

OP 2 3 None

Q15

```c
#include <stdio.h>
void solve() {
    int x = printf("Hello");
    printf(" %d", x);
}
int main() {
    solve();
    return 0;
}
```

OP hello 5