

## Type Casting and Promotions assignment

1. Refer the code snippet below perform the operations marked in TBD section, display the results using appropriate format specifier, display results.

```
#include <stdbool.h>

int main()
{
    int i = 123;
    short s = 98;
    bool b = true;
    char c = 'Y';
    float d = 235.789;
    //TBD – perform operations below and display result using
    appropriate format specifier
    b+c
    s * i
    c * d
    c = c+b
    d = d+c
    b = -d
    return 0;
}
```

Sol:

```
#include <stdio.h>

#include <stdbool.h>

int main() {

    int i = 123;

    short s = 98;

    bool b = true;

    char c = 'Y';

    float d = 235.789;

    int result1 = b + c;

    int result2 = s * i;

    float result3 = c * d;

    c = c + d;

    d = d + c;
```

```
b = -d;

printf("b + c = %d\n", result1);
printf("s * i = %d\n", result2);
printf("c * d = %.3f\n", result3);
printf("Updated c = %d\n", c);
printf("Updated d = %.3f\n", d);
printf("b = %d\n", b);

return 0;
}
```

Output:

```
user57@trainux01:~/Batch17OCT2024$ vi type1.c
user57@trainux01:~/Batch17OCT2024$ gcc type1.c
user57@trainux01:~/Batch17OCT2024$ ./a.out
b + c = 90
s * i = 12054
c * d = 20985.221
Updated c = 68
Updated d = 303.789
b = 1
```