```
1 Diff b2n Lang. VS program Lang
3 H2H => Language
   H2C => Program Language C C++
6 Procedural Language
8 //32 Keywords
   // "Compiler" and Interpreter
10 // Operators, Decision, Loop, (iterative) Switch, Function Pointers Array, String FILE ..... [END OF C]
11
15 int main()
16 - {
      printf("%f",c);
       return 0;
19 }
22 //Processing
23 Source Code (.c) => "PREPROCESSOR" =>
25 // ..... EXTENDED SOURCE CODE ......
26 int main()
27 - {
      printf("%f",c);
       return 0:
30 }
```

```
#include <stdio.h>
int main()

int x, y, z;
    printf("Enter two Numbers");

scanf("%d %d", 8x, 8y);

z=x+y;
    printf("Sum of %d and %d is %d",x,y,z);

return 0;

// 3 basic Data types int (%d) 6 9 2 3 float (%f) 4.5 3.9 Char(%c) 'a' 'b' 'c'

// 3 basic Data types int (%d) 6 9 2 3 float (%f) 4.5 3.9 Char(%c) 'a' 'b' 'c'

input

Enter two Numbers4

6
Sum of 4 and 6 is 10
```

... Program finished with exit code 0

Press ENTER to exit console.

... Program finished with exit code 0

Press ENTER to exit console.

```
|//Processing | Source Code (.C) => "PREPROCESSOR" => Extended Source Code (.S) => "COMPILER" => Assembly Code (.ASM) => "ASSEMBLER" |

=> Object File (.obj) of Source Code => "LINKER" => A single file without any extension => "LOADER" => Output File (.exe) |

|//Source | Program | Process |

|//Code | //HDD | RAM | PROCESSOR
```

```
12
13 // 3 basic Data types int (%d) 6 9 2 3 float (%f) 4.5 3.9 Char(%c) 'a' 'b' 'c'
14
16 x Value 2.5 (x)
   memory address 1000 (&x)
17
19
20 // Operators
21 1. Arithmatic Operators
22 + - * / % etc..
       / and % float DType will not work
23
24
       -5\%2 = -1 but 5\%-2 = 1 (Sign depends on the numerator)
25
27 2. Relational Operators will return
       NONZERO OF ZERO
       YES OF NO
       TRUE OF FALSE
31
       int a=3, b=2, c=2;
34
       d= a>b;
       printf("%d", d); // OUTPUT 1
36
```

```
30
       TRUE(1) or FALSE(0)
31
32
33
34
       int a=3, b=2, c=2;
       d= a>b;
       printf("%d", d); // OUTPUT 1
       d= a<b;
37
       printf("%d", d); // OUTPUT 0
38
       d= a=b;
       printf("%d", d); // OUTPUT 0
41
       d= a!=b;
       printf("%d", d); // OUTPUT 1
42
43
44
```

```
44
   3. Assignment Operator
      a=3
   4. Logical Operators will return
       NONZERO OF ZERO
       YES OF NO
       TRUE(1) or FALSE(0)
       88 Logical AND
                         (It will return 0 if anyone of the INPUT is 0)
          Logical OR
                         (It will return 1 if anyone of the INPUT is 1)
          Logical NOT
                         (will reverse the input as output)
       int a=3 (Nonzero), b=-2(Nonzero), c=0 (zero);
       d= a 88 b 88 c;
                           ZERO
       d= a | b | c;
                           ONE (only considering the value of a)
       d= a | b && c;
                           ONE (only considering the value of a)
       d= c && a || b;
                           ZERO
        d= a && c || b;
                           ONE
64
```