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| **SLO No** | 9.2.2 |
| **SLOs Mapped** | 8.3.2, 9.1.1,9.1.2,9.1.3,9.1.5,9.2.2,9.2.3,9.2.4,9.2.10 |
| **Practical Activity** | To Calculate GCD of given two numbers |
| **Equipment** | Computer |
| **Software** | Dev C++ |

**Practical No 6:**

Topic 9: Fundamental of input and output data handling in C

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| **Objective:** |
| Students will be able to  use the arithmetic operators and input output data handling in C language to solve the given arithmetic problem.  Note: You can use any compiler for program execution. |

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| **Sample Input** | **Sample Output** |
| A = 45  B = 36 | GCD of 45 and 36 is 9 |

**Fill the sections below as evidence of the practical activity.**

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| **Algorithm** | **Flowchart** |
| Step 1:Start  Step 2:let gcd**,**i  Step 3:Input a,b  Step 4:if a<b then small=a eslse small=b  Step 5:if a%i==0 and b%==0 then gcd=i else gcd=gcd  Step 6:i=i+1  Step 7:if i<=small then goto step 5 else goto step 8  Step 8:Print gcd  Step 9:Stop |  |
| **Program Coding** | |
| #include<stdio.h>  int main()  {  int a,b,small,gcd,i;  printf("a: ");  scanf("%d", &a);  printf("b: ");  scanf("%d", &b);  i=1;  (a<b)?({small=a;}):({small=b;});  loop:  ((a%i==0)&&(b%i==0))?({gcd=i;}):((gcd=gcd));  i++;  (i<=small)?({goto loop;}):({goto stop;});  stop:  printf("gcd=%d", gcd);  return 0;  } | |
| **Program Output** | |
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