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| **SLO No** | 10.1.6 |
| **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, 9.2.5, 9.2.6, 10.1.6 |
| **Practical Activity** | To determine prime numbers in integers ranging from n1 to n2 (where n1 is greater than n2) |
| **Equipment** | Computer |
| **Software** | Dev C++ |

**Practical No 11:**

Topic 10: Control Structure in C

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| **Objective:** |
| Students will be able to   * write C programs for the problem involving the use of if-else statement to loop the coding and print prime numbers in a defined range   Note: You can use any compiler for program execution. |

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

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| **Algorithm** | **Flowchart** |
| Step 1: Start  Step 2: Input n1, n2  Step 3: i=2, p=1  Step 4: If n1%i=0 then p=0  Step 5: i=i+1  Step 6: If i<n1 then go to step 4  Step 7: If p==1 then print n1  Step 8: n1=n1-1  Step 9: If n1>=n2 then go to step 3  Step 10: Stop |  |

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| **Program Coding** |
| #include<stdio.h>  int main()  {  int n1,n2,i,p;  printf("Enter First Value:");  scanf("%d",&n1);  printf("Enter Second Value:");  scanf("%d",&n2);  loop1:  i=2;  p=1;  loop2:  if(n1%i==0)  {  p=0;  }  i++;  if(i<n1)  goto loop2;  if(p==1)  printf("%d\n",n1);  n1=n1-1;  if(n1>=n2)  goto loop1;  } |
| **Program Output** |
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