lab3

date:24/09/2025

// 27. PROGRAM TO CHECK WHETHER A NO IS PRIME OR NOT.

```
#include <stdio.h>
int main()
  int a, b, c = 0;
  printf("enter a number=");
  scanf("%d", &a);
  if (a == 0 || a == 1)
    printf("not prime");
 }
  else if (a < 0)
    printf("not defined for negative numbers");
 }
  else
 {
   for (b = 2; b < a; b++)
     if (a % b== 0)
     {
       c = 1;
     }
    }
```

```
if (c == 1)
                         {
                             printf("given number %d is not prime", a);
                         }
                         else
                         { printf("given number %d is prime", a);
                         }
                     }
                     return 0;
                 }
                                                                      C 27_prine_number.c × C | ▷ ~ ⑤ ① --
                                                                                                                                                                                                    5 Code + - □ 1 ··· □ ×
                                                                                                                                         PS.C:\Users\Sumit\Desktop\vscode\clg> cd "cr\Users\Sumit\Desktop\vscode\clg> lg\"; if ($?) { gcc 27 prine number.c = 27 prine number }; if ($?) { .\27_prine number }
                                                                                                                                         enter a number-7
given number 7 is prime
PS C:\Users\Sumit\Desktop\vscode\clg> cd "C:\Users\Sumit\Desktop\vscode\clg>
int main()
                                                                                                                                         lg('; if (5') { gcc 27_prine_number.c = 0 27_prine_number }; if (5') { .
\27_prine_number }
     int a, b, c = 0;
printf("enter a number-");
scanf("%d", %a);
if (a = 0 || a = 1)
                                                                                                                                          enter a number=4
                                                                                                                                         given number 4 is not prime
PS C:\Users\Sumit\Desktop\vscode\clg> cd "c:\Users\Sumit\Desktop\vscode\clg> lg\"; if ($?) { gcc 27 prime number.c = 27 prime number } ; if ($?) { .\27 prime number }
           printf("not prime");
                                                                                                                                         not defined for negative numbers
PS C:\Users\Sumit\Besktop\vscode\clg>
           printf("not defined for negative numbers");
           for (b = 2) b < a; b++)
```

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printf("given number %d is not prime", a);

printf("given number %d is prime", a);