

# Programming in C Lab File

Experiments No.: 24 to 28

Subject Code: 16BCA1C05L Class: I Year I Semester (BCA)

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#### **Experiment 24:**

C Program to print Prime Numbers from 1 to N.

#### Code:

```
#include<stdio.h>
main()
}
    int naiaflagaja
    printf("\nC Program to print Prime Numbers from 1
    to N. -By Suman Garai");
    printf("\n Enter the (N)umber: ");
    scanf("%d"<sub>1</sub>&n);
    printf("The Prime Numbers are: \n");
    for(i=1; i<=n; i++)</pre>
         flag=0;
         for(j=1; j<=n; j++)</pre>
         }
             if(i%j==0)
                  flag++;
         }
         if(flag==2)
             printf(" %d " ¬i);
    }
}
```

#### **Experiment 25a:**

```
C Program to generate pattern: -
                                       1
                                       1
                                       1
                                                  3
Code:
                                                  3
                                       1
#include <stdio.h>
main ()
-
    int in jo rowsi
    printf("\nC Program to generate pattern. -By
    Suman Garai");
    printf("\n Enter the number of rows: ");
    scanf("%d" a &rows);
    for (i=l; i<=rows; i++)</pre>
    {
        for (j=1; j<=i; j++)
             printf("%4d", j);
         } printf("\n");
    }
}
```

```
PROBLEMS OUTPUT DEBUG COMPOSE TERMINAL

Ricrosoft kindows [Version 18.8.19942.636]
(c) 2020 Microsoft kindows [Version 18.
```

#### **Experiment 25b:**

```
C Program to generate pattern: -
                                    1
                                    3
                                          3
                                                 3
Code:
                                    4
                                                        4
#include <stdio.h>
main ()
-{
    int in ja rowsa
    printf("\nC Program to generate pattern. -By
    Suman Garai");
    printf("\n Enter the number of rows: ");
    scanf("%d", &rows);
    for (i=l; i<=rows; i++)</pre>
    }
        for (j=1; j<=i; j++)
             printf("%4d", i);
        } printf("\n");
    }
}
```

```
Microsoft kindows (Version 18.6,19042,630)
(c) 2028 Microsoft Corporation. All rights reserved.

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```

#### **Experiment 26a:**

```
3
         C Program to generate pattern: -
                                   4
                                                2
                                                       1
                                    3
                                         2
                                         1
Code:
#include <stdio.h>
main ()
-
    int in jo rowsi
    printf("\nC Program to generate pattern. -By
    Suman Garai");
    printf("\n Enter the number of rows: ");
    scanf("%d" a &rows);
    for (i=rows: i>=l: i--)
        for (j=i; j>=l; j--)
            printf("%4d", j);
        } printf("\n");
    }
}
```

```
PROBLEMS OUTPUT DEBUG CONSOLE **IBMANAL**

**Ricrosoft kindous (Version 18.6.19942,G8)
(c) 2020 Microsoft Corporation. All rights reserved.

C:\Users\943r6u81\Desktop\Codes>cd **c:\Users\943r6u81\Desktop\Codes\* $6 g++ prog.25.b.cpp -o prog.25.b $6 **c:\Users\943r6u81\Desktop\Codes\*prog.25.b

C Program to generate pattern. -By Suman Garai.

Enter the number of rows: 4

1
2
2
3 3 3
4 4 4 4

C:\Users\943r6u81\Desktop\Codes>[]
```

## **Experiment 26b:**

```
#include <stdio.h>
main ()
{
    int i, j, rows;
    printf("\nC Program to generate pattern. -By
    Suman Garai");
    printf("\n Enter the number of rows: ");
    scanf("%d", &rows);
    for (i=rows; i>=l; i--)
    {
        for (j=i; j>=l; j--)
        {
            printf("%4d", i);
        } printf("\n");
    }
}
```

```
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```

```
1
Experiment 27a:
         C Program to generate pattern: -
                                               2
                                                     3
                                               2
                                            1
                                                     3
                                                          4
                                               2
                                            1
Code:
                                               2
                                            1
                                            1
#include <stdio.h>
main ()
-
    int in jo rowsi
    printf("\nC Program to generate pattern. -By
    Suman Garai");
    printf("\n Enter the number of rows: ");
    scanf("%d" a &rows);
    for (i=l; i<=rows; i++)</pre>
         for (j=1; j<=i; j++)
             printf("%4d", j);
         } printf("\n");
    for (i=rows: i>=l: i--)
    {
         for (j=1; j<i; j++)
             printf("%4d", j);
         } printf("\n");
    }
}
```

```
PROBLEMS CUTFUT DEBUG CONSOLE TBRAMMAL

Microsoft Windows [Version 10.0.19042.63e]
(c) 2020 Microsoft Users\943r6u81\Desktop\Codes\7 && g+ prog.27.a.cpp -o prog.27.a & "c:\Users\943r6u81\Desktop\Codes\7 prog.27.a

C:\Users\943r6u81\Desktop\Codes\7 prog.27.a
```

```
Experiment 27b:
                                          1
         C Program to generate pattern: -
                                               3
                                          3
                                                     3
                                          4
                                                     4
                                                          4
                                               3
                                          3
                                                     3
Code:
                                          2
                                                     2
                                          1
#include <stdio.h>
main ()
}
    int in jo rowsi
    printf("\nC Program to generate pattern. -By
    Suman Garai");
    printf("\n Enter the number of rows: ");
    scanf("%d" a &rows);
    for (i=l; i<=rows; i++)</pre>
         for (j=1; j<=i; j++)
             printf("%4d", i);
         } printf("\n");
    for (i=rows: i>=l: i--)
    }
         for (j=1; j<i; j++)
             printf("%4d", i-1);
         } printf("\n");
    }
}
```

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

Microsoft kindous [Version 18.8.19842.638]

(c) 2020 Microsoft kindous [Version 18.8.19842.638]

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(e) 2020 Microsoft kindous [Version 18.8.19842.638]

(
```

```
3
Experiment 28a:
                                 1
         C Program to generate pattern: -
                                                       5
                                               4
                                 3
Code:
#include <stdio.h>
main ()
-
    int in jn rowsn n = li
    printf("\nC Program to generate pattern. -By
    Suman Garai");
    printf("\n Enter the number of rows: ");
    scanf("%d" a &rows) i
    for (i=l; i<=rows; i++)</pre>
        for (j=1: j<=rows: j++)</pre>
             printf("%4d", n); n++;
        } n -= (rows - 1); printf("\n");
    }
}
```

```
PRODREMS OUTPUT DEBUG CONSOLE TERMINAL

Microsoft Windows [Version 18.8.16912.638]
(c) 3020 Microsoft Windows [Version 18.
```

```
Experiment 28b:
                                       1
         C Program to generate pattern: -
                                       2
                                            3
                                       4
                                            5
                                                  6
                                       7
                                            8
                                                  9
                                                        10
Code:
#include <stdio.h>
main ()
-
    int i_1 j_1 rows, n = 1;
    printf("\nC Program to generate pattern. -By
Suman Garai");
    printf("\n Enter the number of rows: ");
    scanf("%d" a &rows);
    for (i=l; i<=rows; i++)</pre>
        for (j=1; j<=i; j++)
             printf("%4d", n); n++;
         } printf("\n");
    }
}
```

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