```
1 // Progrm to calculate the sum of first 10 even numbers.
2 #include <stdio.h>
3 int main()
4 {
5    int sum = 0;
6    printf("Sum of first 10 even numbers:\n");
7    for (int i = 0; i <= 10; i += 2)
8    {
9        sum += i;
10    }
11    printf("Sum = %d", sum);
12    return 0;
13 }</pre>
```

```
PROBLEMS OUTPUT TERMINAL PORTS COMMENTS DEBUG CONSOLE

> ./question1
Sum of first 10 even numbers:
Sum = 30
-/Documents/BCA/2nd Sem/C/College_Assignment/assignment14
```

```
> ./question2
Prime numbers from 1 to 100 are:
2
                                11
                                                17
                                                        19
                                                                23
                                                                        29
                                        13
1
        37
                41
                        43
                                                59
                                                        61
                                                                67
                                                                        71
3
                                        %
       79
               83
                        89
                               97
~/Doc/BC/2/C/C/assignment14
```

```
1  // Program to display all the leap years starting from 1900 to 2000.
2  #include <stdio.h>
3  int main()
4  {
5    int year;
6    printf("Leap years starting from 1900 to 2000.\n");
7    for (int year = 1900; year <= 2000; year++)
8    {
9       if (year % 400 == 0 || (year % 100 != 0 && year % 4 == 0))
10       {
11            printf("%d\t", year);
12       }
13    }
14    return 0;
15 }</pre>
```

```
1904
       1908
               1912
                       1916
                              1920
                                      1924
                                              1928
                                                     1932
                                                             1936
                                                                     1940
                                                                             1944
1948
        1952
                        1960
                               1964
                                       1968
                1956
                                              1972
                                                      1976
                                                              1980
                                                                     1984
                                                                             1988
                        %
 1992
         1996
                 2000
~/Doc/BC/2/C/C/assignment14
```

```
#include <stdio.h>
   #include <stdlib.h>
   #define TRUE 1
   #define PI 3.1415
   int main()
        int choice, n, N;
       printf("1. Find area of circle\n");
       printf("2. Check the given number is odd or even\n");
       printf("3. Find the sum of N numbers\n");
       printf("4. Exit\n");
            printf("Enter a choice: ");
           scanf("%d", &choice);
            switch (choice)
               printf("Enter radius: ");
               scanf("%f", &r);
a = PI * r * r;
                printf("Area of a circle is %f\n", a);
                break;
                printf("Enter a number: ");
                scanf("%d", &n);
                if (n % 2 == 0)
                    printf("%d is even\n", n);
                else
                    printf("%d is odd\n", n);
                break;
                printf("Enter value of N: ");
                scanf("%d", &N);
                printf("Enter %d numbers: ", N);
                    scanf("%f", &num);
                    sum += num;
                printf("Sum = %f\n", sum);
                break;
               exit(0);
            default:
                printf("Wrong choice! Try again\n");
```

```
TERMINAL
> ./question4
1. Find area of circle
2. Check the given number is odd or even
3. Find the sum of N numbers
4. Exit
Enter a choice: 1
Enter radius: 4
Area of a circle is 50.264000
Enter a choice: 2
Enter a number: 3
3 is odd
Enter a choice: 3
Enter value of N: 3
Enter 3 numbers: 2 3 4
Sum = 9.000000
Enter a choice: 677
Wrong choice! Try again
Enter a choice: 4
~/Documents/BCA/2nd Sem/C/College_Assignment/assignment14
```

```
1  /*
2  Program to print the following outputs using for loops:
3  1
4  2  2
5  3  3  3
6  4  4  4  4
7  5  5  5  5  5
8  */
9
10  #include <stdio.h>
11  int main()
12  {
15     for (int i = 1; i <= 5; i++)
16     {
17         printf("%d\t", i);
18     }
19     printf("\n");
20     }
21     return 0;
22 }</pre>
```

```
PROBLEMS OUTPUT TERMINAL PORTS COMMENTS DEBUG CONSOLE

> ./question5
1
2 2
3 3 3
4 4 4 4 4
5 5 5 5 5 5

~/Documents/BCA/2nd Sem/C/College_Assignment/assignment14
```

```
2 WAP to display following:
   #include <stdio.h>
   int main()
   {
        int p;
       for (int i = 0; i <= 4; i++)
        {
            for (int j = 0; j \le i; j++)
                p = (i + j) + 1;
               printf("%d\t", p);
            printf("\n");
        }
      return 0;
24 }
```

```
Program to display the following:
   #include <stdio.h>
   int main()
       for (int i = 1; i <= 5; i++)
        {
           for (int j = 1; j \le i; j++)
           {
               printf("%d\t",1);
           printf("\n");
       }
       return 0;
22 }
```

```
PROBLEMS OUTPUT
                  TERMINAL
                            PORTS
                                    COMMENTS DEBUG CONSOLE
> ./question7
1
1
        1
1
        1
               1
1
        1
               1
                       1
        1
               1
                       1
1
                               1
~/Documents/BCA/2nd Sem/C/College_Assignment/assignment14
```

```
> ./question8
Enter a number: 5
5 is a prime number. 4
> ./question8
Enter a number: 8
8 is not a prime number. 4
> ./question8
Enter a number: 123
123 is not a prime number. 4
```