

```

1 // C program to read a positive integer less than 20 and display its multiplication table.
2 #include <stdio.h>
3 int main()
4 {
5     int n, i;
6     printf("Enter a positive number less than 20: ");
7     scanf("%d", &n);
8     if (n > 0 && n < 20)
9     {
10         printf("The multiplication table of %d is:\n", n);
11         for (i = 1; i <= 10; i++)
12         {
13             printf("%d * %d = %d\n", n, i, n * i);
14         }
15     }
16     else
17     {
18         printf("You have entered negative number or number greater than 20");
19     }
20     return 0;
21 }

```

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```

> ./question1
Enter a positive number less than 20: 13
The multiplication table of 13 is:
13 * 1 = 13
13 * 2 = 26
13 * 3 = 39
13 * 4 = 52
13 * 5 = 65
13 * 6 = 78
13 * 7 = 91
13 * 8 = 104
13 * 9 = 117
13 * 10 = 130

```

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```
1 // C program to display the sum of even numbers up to n terms.
2 #include <stdio.h>
3 int main()
4 {
5     int n, i, j = 2, sum = 0;
6     printf("Enter the value of n: ");
7     scanf("%d", &n);
8     for (i = 0; i < n; i++)
9     {
10         sum += j;
11         j += 2;
12     }
13     printf("The sum of even numbers up to %d terms is %d", n, sum);
14     return 0;
15 }
```

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```
> ./question2
Enter the value of n: 25
The sum of even numbers up to 25 terms is 650%
> ./question2
Enter the value of n: 5
The sum of even numbers up to 5 terms is 30%
```

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```
1  /* Program to print first 10 terms of the following series using for loop:
2  1   5   9   13...*/
3  #include <stdio.h>
4  int main()
5  {
6      int i, n = 1;
7      printf("\nFirst 10 terms of the series are: \n");
8      for (i = 1; i <= 10; i++)
9      {
10         printf("%d\t", n);
11         n += 4;
12     }
13     return 0;
14 }
```

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> ./question3

First 10 terms of the series are:

1	5	9	13	17	21	25	29	33	37	
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