

main.c

```
1 #include <stdio.h>
2
3 int main()
4 {
5     int i,j,n,num=1;
6     printf("enter the value of n:");
7     scanf("%d",&n);
8     for(i=1;i<=n;i++)
9     {
10         for(j=1;j<=i;j++)
11         {
12             printf("%d",num);
13             num++;
14         }
15         printf("\n");
16     }
17     return 0;
18 }
19
20
```

I

input

enter the value of n:4

1
23
456
78910

...Program finished with exit code 0
Press ENTER to exit console.

09:12
22-09-2020

main.c

```
1 #include <stdio.h>
2
3 int main ()
4 {
5     int marks1, marks2;
6     printf ("enter the CIE marks:");
7     scanf ("%d", &marks1);
8     printf ("enter the SEE marks:");
9     scanf ("%d", &marks2);
10    if (marks1 < 20)
11        printf ("grade is f ");
12    else if (marks2 >= 90)
13        printf ("grade is A ");
14    else if (marks2 >= 80)
15        printf ("grade is B ");
16    else if (marks2 >= 70)
17        printf ("grade is C");
18    else if (marks2 >= 60)
19        printf ("grade is D ");
20    else if (marks2 >= 40)
21        printf ("grade is E ");
22    else
23        printf("grade is F");
24 }
25
```

input

```
enter the CIE marks:45
enter the SEE marks:70
grade is C

...Program finished with exit code 0
Press ENTER to exit console.
```


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Language C

main.c

```
1 #include <stdio.h>
2 int checkPrimeNumber(int n);
3 int main() {
4     int n1, n2, i, flag;
5     printf("Enter two positive integers: ");
6     scanf("%d %d", &n1, &n2);
7     printf("Prime numbers between %d and %d are: ", n1, n2);
8     for (i = n1 + 1; i < n2; ++i)
9     {
10         flag = checkPrimeNumber(i);
11
12         if (flag == 1)
13             printf("%d ", i);
14     }
15     return 0;
16 }
17 int checkPrimeNumber(int n)
18 {
19     int j, flag = 1;
20     for (j = 2; j <= n / 2; ++j)
21     {
22         if (n % j == 0)
23         {
24             flag = 0;
25             break;
26         }
27     }
28     return flag;
29 }
```

input

Press ENTER to exit console

main.c

1 #include <stdio.h>
2 int checkPrimeNumber(int n);
3 int main() {
4 int n1, n2, i, flag;
5 printf("Enter two positive integers: ");
6 scanf("%d %d", &n1, &n2);
7 if (n1 < 2 || n2 < 2) {
8 printf("Invalid input. Please enter positive integers greater than 1.\n");
9 return 1;
10 }
11 for (i = 2; i <= n1; i++) {
12 if (checkPrimeNumber(i)) {
13 printf("%d ", i);
14 if (i % 10 == 0) printf("\n");
15 }
16 }
17 for (i = 2; i <= n2; i++) {
18 if (checkPrimeNumber(i)) {
19 printf("%d ", i);
20 if (i % 10 == 0) printf("\n");
21 }
22 }
23 printf("\n");
24 return 0;
25 }

input

Enter two positive integers: 20 30
Prime numbers between 20 and 30 are: 23 29
...Program finished with exit code 0
Press ENTER to exit console.

I