```c
#include <stdio.h>

int main()
{
    int i,j,n,num=1;
    printf("enter the value of n:");
    scanf("%d",&n);
    for(i=1;i<=n;i++)
    {
        for(j=1;j<=i;j++)
        {
            printf("%d",num);
            num++;
        }
        printf("\n");
    }
    return 0;

}
```

```
enter the value of n:3
1
23
456


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

```c
#include <stdio.h>

int main ()
{
  int marks1, marks2;
  printf ("enter the CIE marks:");
  scanf ("%d", &marks1);
  printf ("enter the SEE marks:");
  scanf ("%d", &marks2);
  if (marks1 < 20)
    printf ("grade is f ");
  else if (marks2 >= 90)
    printf ("grade is A ");
  else if (marks2 >= 80)
    printf ("grade is B ");
    else if (marks2 >= 70)
    printf ("grade is C");
    else if (marks2 >= 60)
    printf ("grade is D ");
    else if (marks2 >= 40)
    printf ("grade is E ");
    else
    printf("grade is F");
}
```

```
enter the CIE marks:50
enter the SEE marks:100
grade is A

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

```c
#include <stdio.h>
int checkPrimeNumber (int n);
int
main ()
{
  int n1, n2, i, flag;
  printf ("Enter two positive integers: ");
  scanf ("%d %d", &n1, &n2);
  printf ("Prime numbers between %d and %d are: ", n1, n2);
  for (i = n1 + 1; i < n2; ++i)
    {
 flag = checkPrimeNumber (i);

 if (flag == 1)
    printf ("%d ", i);
    }
  return 0;
}

int
checkPrimeNumber (int n)
{
  int j, flag = 1;
  for (j = 2; j <= n / 2; ++j)
    {
if (n % j == 0)
    {
      flag = 0;
      break;
    }
    }
  return flag;
}
```

```
Enter two positive integers: 1 6
Prime numbers between 1 and 6 are: 2 3 5

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