```c
#include <stdio.h>
int main()
{
    int n;
    printf(" Enter a number: \n");
    scanf(" %d", &n);

    int i,j;
    int k=1;
    for (i=1 ; i<=n ; i++)
    {
        for (j=0 ; j<i ; j++)
        {
            printf("%d", k);
            k++;
        }
        printf("\n");
    }
    return 0;
}
```

```c
#include <stdio.h>
int main()
{
    float m,n,p,q;
    printf(" enter the marks of ce:\n");
    scanf(" %f", &m);
    printf(" enter the marks of see:\n");
    scanf(" %f", &n);
    p=n/2;
    q=m+p;
    if (q<40.0)
        printf(" the grade is F\n");
    else if (q>40.0 && q<=50.0)
        printf(" the grade is E\n");
    else if (q>50.0 && q<=60.0)
        printf(" the grade is D\n");
    else if (q>60.0 && q<=70.0)
        printf(" the grade is C\n");
    else if (q>70.0 && q<=80.0)
        printf(" the grade is B\n");
    else if (q>80.0 && q<=90.0)
        printf(" the grade is A\n");
    else if (q>90.0 && q<=100.0)
        printf(" the grade is S\n");
    return 0;
}
```

```c
# include <stdio.h>
# include <math.h>

int main()
{
    int m, i;
    printf("1: find the volume and area of cylinder \n");
    printf("2: find the volume and area of cone \n");
    printf("3: find the volume and area of sphere \n");
    printf("a: and to quit \n");

    while (1)
    {
        printf(" enter your choice \n");
        scanf(" %d", &m);
        if (m == 1)
        {
            int a, b;
            float c, d;
            printf("enter the values of height and radius of
                    the cylinder \n");
            scanf("%d %d", &a, &b);
            c = (2 * 3.14 * b * a) + (2 * 3.14 * b * b);
            d = 3.14 * b * b * a;
            printf(" the volume and area of cylinder are
                    %d, %d \n", d, c);
        }
        else if (m == 2)
        {
            int e, f;
            float g, h;
```

```c
printf (" enter the values of height and radius of cone\n");
scanf (" %d %d", &c, &f);

g = 3.14 * f * ( f + sqrt ( ( c*c + f*f) );
h = (3.14 * f * f *c) /3;
printf (" the volume and area of cone are %f %f \n", h, g);
}

else if ( m == 3)
{
    int j;
    float l, o;
    printf (" enter the value of radius \n");
    scanf (" %d", &j);
    l = 4*3 .14 *j*j;
    o = (4* 3.14 *j*j *j)/3;
    printf (" the volume and area of sphere are %f %f \n"
            o, l);
}
else if (m == 4)
    break;
else
    printf (" entered invalid choice \n");
}

return 0;
}
```

```
#include <stdio.h>
int main()

#include <stdio.h>
int main()
{
    int a,b;
    printf ("enter two integers :");
    scanf ("%d %d", &a, &b);

    int i,j,k;
    printf (" the prime no. between %d and %d :\n",a,b);
    for (i=a ;  i<=b; i++)
    {
        for (j=2 ; j< = i/2 ; j++)
        {
            if (i%j= =0)
            {
                k=0;
                break;
            }
            else
                k=1;
        }
        if (k==1)
            printf ("%d\n", i);
    }
    return 0;
}
```