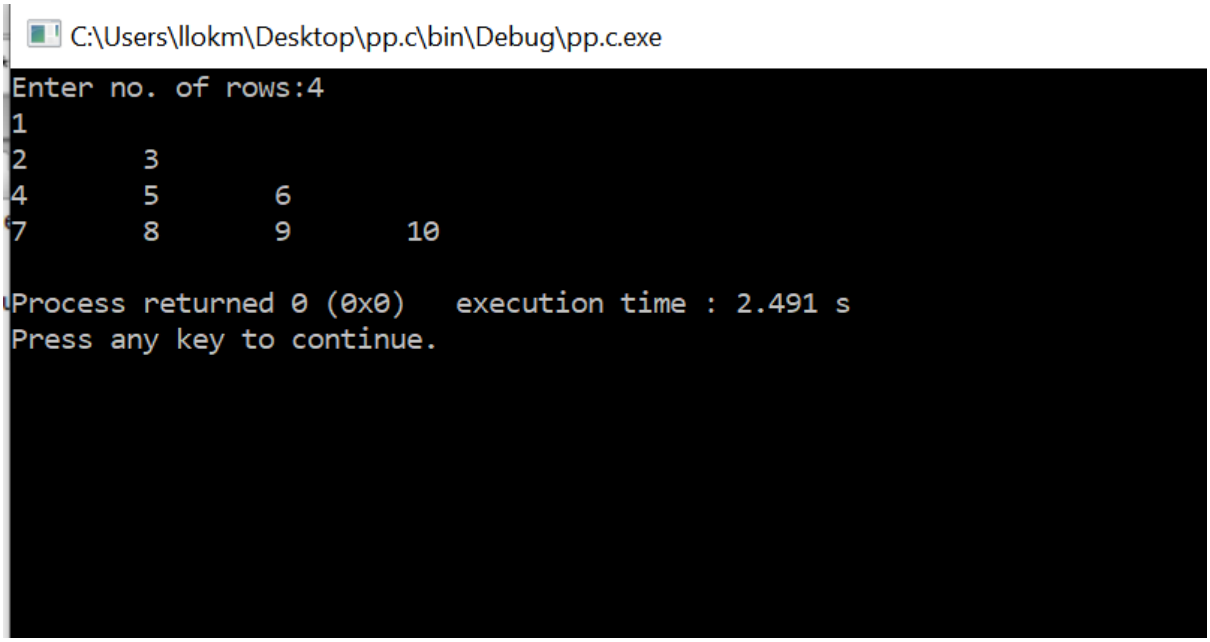
Practice programs for OOJ lab-Week-2(C programs)

3)

```
#include <stdio.h>
#include <stdlib.h>
      int main()
{
  int i,j,n,k=1;
  printf("Enter no. of rows:");
  scanf("%d",&n);
  for(i=1;i<=n;i++)
  {
     for(j=1;j<=i;j++)
     {
        printf("%d\t",k);
        k++;
     }
     printf("\n");
  }
}
```



Practice programs for OOJ lab-Week-2(C programs)

4)

```
#include <stdio.h>
int main()
{
 int CIE,SEE;
 float tot;
 printf("Enter the CIE(50) and SEE(100) marks of the student respectively\n");
 scanf("%d%d",&CIE,&SEE);
 tot = (SEE/2.0) + CIE;
 if(CIE>=20 && SEE>=40)
 {
 if(tot>89 && tot<=100)
 printf("Grade: S");
 else if(tot>79 && tot<=89)
 printf("Grade: A");
 else if(tot>69 && tot<=79)
 printf("Grade: B");
 else if(tot>59 && tot<=69)
 printf("Grade: C");
 else if(tot>49 && tot<=59)
 printf("Grade: D");
 else
 printf("Grade: E");
 }
 else if(CIE>=20 && SEE<40)
 printf("Grade: F");
 else
 printf("Not eligible, grade not applicable");
return 0;
}
```

```
Enter the CIE(50) and SEE(100) marks of the student respectively
45
90
Grade: S
Process returned 0 (0x0)   execution time : 11.423 s
Press any key to continue.
```

```
Enter the CIE(50) and SEE(100) marks of the student respectively
27
50
Grade: D
Process returned 0 (0x0)   execution time : 12.440 s
Press any key to continue.
```

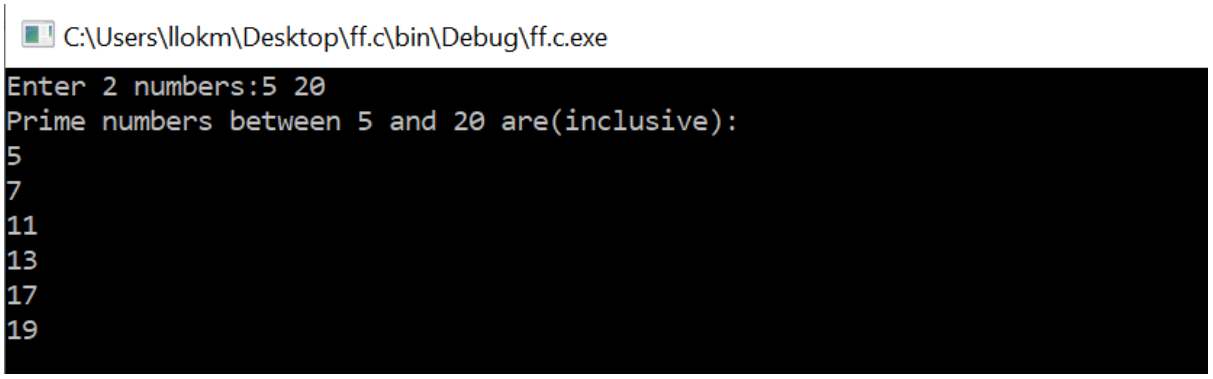
Practice programs for OOJ lab-Week-2(C programs)

5)

```
 #include <stdio.h>
int main()
{
  int i,low,high,flag;
  printf("Enter 2 numbers:");
  scanf("%d %d",&low ,&high);
  printf("Prime numbers between %d and %d are(inclusive):\n",low,high);
  while(low<=high)
  {
     if(low<=1)
     {
        low++;
        continue;
     }
     flag = 0;
     for(i=2;i<=low/2;i++)
     {
        if(low%i==0)
       {
          flag=1;
          break;
        }
     }
      if(flag==0)

      printf("%d\n",low);

      low++;
   }
}
```



Practice programs for OOJ lab-Week-2(C programs)

6)

```
  #include <stdio.h>
#include <math.h>
#include <stdlib.h>
int main() {
 float a,v,r,h;
 while(1==1)
 {
 int c;
 printf("Enter the choice of shape:\n");
 printf("1.Cylinder\n2.Cone\n3.Sphere\n0.Exit\n");
 scanf("%d",&c);
 switch(c)
 {
 case 1:printf("Enter radius:\n");
 scanf("%f",&r);
 printf("Enter height:\n");
 scanf("%f",&h);
 a=(2*3.14*r*h)+(2*3.14*r*r);
 v=(3.14*r*r*h);
 printf("Area: %f\nVolume: %f\n",a,v);
 break;
 case 2:printf("Enter radius:\n");
 scanf("%f",&r);
 printf("Enter height:\n");
 scanf("%f",&h);
 a=(3.14*r)*(r+sqrt((h*h)+(r*r)));
 v=(3.14*r*r*h)/3.0;
 printf("Area: %f\nVolume: %f\n",a,v);
 break;
 case 3:printf("Enter radius:\n");
 scanf("%f",&r);
 a=4*3.14*r*r;
 v=(4*3.14*r*r*r)/3.0;
 printf("Area: %f\nVolume: %f\n",a,v);
 break;
 case 0:printf("Exit\n");
 exit(0);
 default:printf("Invalid choice\n");
 }
 }
 return 0;
}
```

Practice programs for OOJ lab-Week-2(C programs)