```
1 #include <stdio.h>
int main()
int i,j
printf(
           int i,j,n,num=1;
printf("enter the value of n:");
scanf("%d",&n);
for(i=1;i<=n;i++)</pre>
                  for(j=1;j<=i;j++)
                       printf("%d\t|",num);
numt+;
                 }
printf("\n");
19 }
```

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

int i,j,n,num=1
             int i,j,n,num=1;
printf("enter the value of n:");
scanf("%d",%n);
enter the value of n:4
 ... Program finished with exit code 0
 Press ENTER to exit console.
```

```
main.c
  1 #include(stdio.h>
   2 #include<stdlib.h>
   3 int main()
  5 int ciemarks, seemarks;
  6 float see, total;
      int i;
  8 for(i=1;i<=5;i++)
  9- (
          printf( "enter your marks in CIE for sub(%d):\n",i);
               ("%d", &ciemarks);
          if((ciemarks>=0)&&(ciemarks<=50))
             printf("your cie marks for sub(%d) is: %d\n",i,ciemarks);
             printf("marks invalid\n");
exit(0);
          printf("enter your marks in SEE for sub(%d):\n",i);
               ("%d", &seemarks);
          if((seemarks>=0)&&(seemarks<=100))
              printf("your see marks for sub(%d) is: %d\n",i,seemarks);
              printf(" marks invalid\n");
              exit(0);
          see=seemarks/2;
          total=see+ciemarks;
                f("total marks u have scored in sub(%d)=%f\n",i,total);
          if(total>=90)
          print("grade is S\n");
else if(total>=80 && total<90)</pre>
                f("grade is 5\n");
          printf(" grade is A\n");
          else if(total>=70 && total<80)
                f("grade is B\n");
          else if(total>=60 &&total<70)
                ("grade is C\n");
          else if(total>=50 &&total<60)
```

```
8 for(i=1;i<=5;i++)
9-{
       printf( "enter your marks in CIE for sub(%d):\n",i);
            ("%d",&ciemarks);
       if((ciemarks>=0)&&(ciemarks<=50))
           printf("your cie marks for sub(%d) is: %d\n",i,ciemarks);
           printf("marks invalid\n");
            exit(0);
       }
printf("enter your marks in SEE for sub(%d):\n",i);
             ("%d", &seemarks);
        if((seemarks>=0)&&(seemarks<=100))
           printf("your see marks for sub(%d) is: %d\n",i,seemarks);
           printf(" marks invalid\n");
exit(0);
        see=seemarks/2;
        total=see+ciemarks;
              ("total marks u have scored in sub(%d)=%f\n",i,total);
         if(total>=90)
              ("grade is S\n");
         else if(total>=80 && total<90)
         printf(" grade is A\n");
         else if(total>=70 && total<80)
         printf("grade is B\n");
         else if(total>=60 &&total<70)
              f("grade is C\n");
         else if(total>=50 &&total<60)
               ("grade is D\n");
         else if(total>=40 &&total<50)
               ("grade is E\n");
         printf("grade is F\n");
 51 }
```

```
1 #include(stdio.h)
3 int main()
5 int ciemarks, seemarks;
6 float see,total;
7 int i;
                                                                                                          input
V / 3
nter your marks in CIE for sub(1):
our cie marks for sub(1) is: 43
nter your marks in SEE for sub(1):
our see marks for sub(1) is: 79
otal marks u have scored in sub(1)=82.000000
grade is A
nter your marks in CIE for sub(2):
your cie marks for sub(2) is: 45
nter your marks in SEE for sub(2):
marks invalid
.. Program finished with exit code 0
ress ENTER to exit console.
```

```
1 #include(stdio.h>
2 int main()
3- {
       int num1, num2, flag, i, j;
       printf("enter the 1st integer\n");
            F("%d",&num1);
        printf("enter the 2nd integer\n");
            f("%d",&num2);
        printf("prime numbers from %d and %d are:\n",num1,num2);
        for(i=num1;i<=num2;++i)
            flag =0;
            for(j=2;j<i/2;++j)
                if(i%j==0)
                    flag=1;
                    break;
            if(flag==0)
            printf("%d\n",i);
        return 0;
25 }
V 2 3
enter the 1st integer
enter the 2nd integer
orime numbers from 23 and 50 are:
29
31
37
```

```
main.c
 1 #include<stdio.h>
 2 int main()
 3- {
        int num1,num2,flag,i,j;
        printf("enter the 1st integer\n");
        scanf("%d",&num1);
        printf("enter the 2nd integer\n");
                                                                                        input
enter the 1st integer
23
enter the 2nd integer
prime numbers from 23 and 50 are:
29
31
37
41
43
...Program finished with exit code 0
Press ENTER to exit console.
```

```
1 #include(stdio.h>
3 int main()
4- (
       float area, volume, r, h;
       int i,flag=0;
       float pi=3.14;
            f("Enter 1:Cylinder\n2:Cone\n3:sphere\n4:exit\n");
            ("%d",&i);
       switch(i)
               printf("enter radius\n");
                    ("%f",&r);
                    f("enter hieght\n");
                    f("%f",&h);
               area (2 pi r h) (2 pi r r);
               volume=(pi*r*r*h);
                     ("the area and volume of cylinder is %f and %f\n",area,volume);
               break;
                     f("enter radius\n");
                    f("%f",&r);
                    f("enter hieght\n");
               scanf("%f",&h);
area=pi=r*(r+sqrt((h*h)+(r*r)));
               volume=pi*r*r*(h/3);
                     f("the area and volume of cone is %f and %f\n",area,volume);
                     f("enter radius\n");
                    f("%f",&r);
               area=4*pi*r*r;
               volume=(4/3)*pi*r*r*r;
                print ("the area and volume of sphere is %f and %f\n",area,volume);
               break;
               flag=1;
               break;
           while(flag!=1);
```

```
WILLIAM (I)
                        ("enter radius\n");
                      f("%f",&r);
                        ("enter hieght\n");
                     anf("%f",&h);
                  area (2 pi r h) (2 pi r r);
                  volume=(pi*r*r*h);
                        ("the area and volume of cylinder is %f and %f\n", area, volume);
                        f("enter radius\n");
                   scanf("%f",&r);
                  printf("enter hieght\n");
scanf("%f",&h);
                  area=pi*r*(r+sqrt((h*h)+(r*r)));
                  volume=pi*r*r*(h/3);
                        ("the area and volume of cone is %f and %f\n",area,volume);
                        ("enter radius\n");
                       f("%f",&r);
                  area=4*pi*r*r;
                  volume=(4/3)*pi*r*r*r;
                        f("the area and volume of sphere is %f and %f\n", area, volume);
                  flag=1;
              while(flag!=1);
47
v / 3
                                                                                                             input
the area and volume of cylinder is 6631.679688 and 34364.160156
Enter 1:Cylinder
2:Cone
3:sphere
4:exit
... Program finished with exit code 0
```

```
while(flag!=1);
47
onter 1:Cylinder
                                                                                                           input
2:Cone
:sphere
:exit
enter radius
he area and volume of sphere is 1808.640015 and 5425.919922
nter 1:Cylinder
:Cone
:sphere
:exit
nter radius
nter hieght
he area and volume of cylinder is 6631.679688 and 34364.160156
nter 1:Cylinder
:Cone
sphere
exit
.Program finished with exit code 0
ess ENTER to exit console.
```

```
1 #include<stdio.h>
2 #include<string.h>
3 void main()
         char name[100][100]; int n,k,c,i=0,j=0,d=0;
                 ("Enter the number of students:");
               f("%d",&n);
                 ("Enter name of the student and course respectively \n1 for internet of things\n2 for advanced java and J2EE \n3 for advanced data structure \n");
         for(k=0;k<n;k++)
               f("%s %d",name[i],&c);
         for(k=0;k<n;k++)
               if(c=1)
                    i++;
              if(c==2)
              j++;
if(c==3)
                   d++;
          } while (i<30||j<30||d<30);
printf("Students in internet of things: %d",i);
printf("Students in advanced java and J2EE: %d",j);
printf("Students in advanced data structure: %d",d);</pre>
```

```
1 #include<stdio.h>
 3 void main()
        char name[100][100]; int n,k,c,i=0,j=0,d=0;
V / 4
                                                                                                         input
Enter the number of students:4
Enter name of the student and course respectively
1 for internet of things
2 for advanced java and JZEE
3 for advanced data structure
ram 2
shyam 1
ghanshyam 3
rita 1
Enter the number of students:
```