```
#include<stdio.h>
    #include<math.h>
    void cylinder();
3
4
    void cone();
    void sphere();
5
    int main()
6
    £
8
        int ch;
9
        do
        1
0
п
        printf("1.cylinder 2.cone 3.sphere 4.exit \n");
12
В
        printf("enter your choice\n");
scanf("%d",&ch);
        switch(ch)
5
6
        £
7
        case 1:
        cylinder();
B
9
        break:
0
        case 2:
Π
        cone();
ת
        break;
В
        case 3:
Ŋ
        sphere();
15
        break;
16
        case 4:
7
        printf("exit\n");
8
        breakt
9
        default:
        printf("enter correct value\n");
10
1
2
        }while(ch!=4);
B
        return 0;
4
5
    void cylinder()
16
        float a, v, r, h;
37
        printf("enter the radius and height\n");
18
        scanf("%f %f",&r,&h);
19
        a=(2*3.14*r*h)+(2*3.14*r*r);
Ю
```

```
v=(3.14*r*r*h);
    printf("Area:%f ; Volume:%f \n",a,v);
}
void cone()
€
    float a,v,r,h,x;
    printf("enter the radius and height\n");
    scanf("%f %f",&r,&h);
    x=sqrt((h*h)+(r*r));
    a=(3.14*r*(r+x));
    v=(3.14*r*r*(h/3.0));
    printf("Area:%f; Volume:%f \n",a,v);
1
void sphere()
£
    float a,v,r;
    printf("enter the radius and height\n");
    scanf("%f",&r);
    a=4*3.14*r*r;
    v=(4.0/3.0)*3.14*r*r*r;
    printf("Area:%f ; Volume:%f \n",a,v);
)
```

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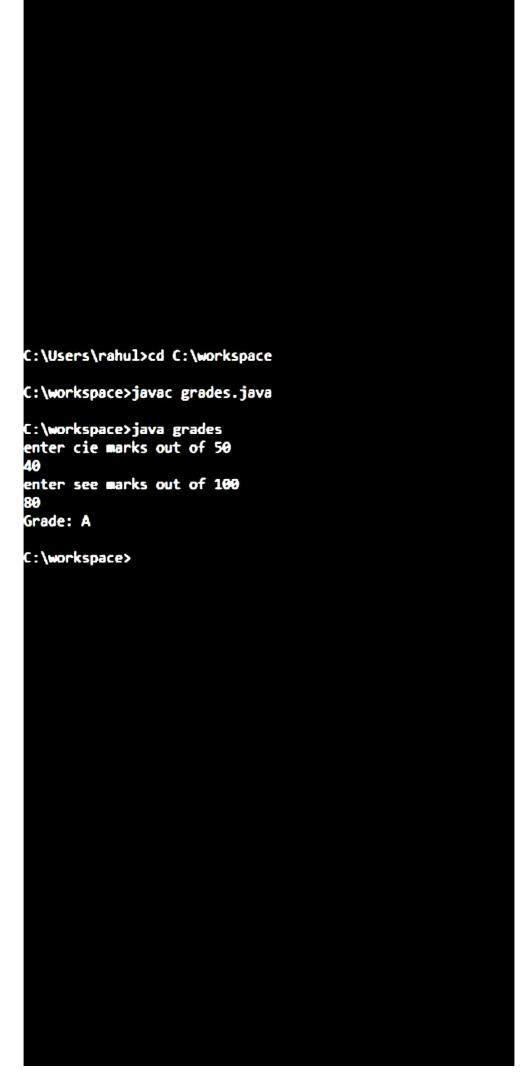
66

57/

```
1.cylinder 2.cone 3.sphere 4.exit
enter your choice
enter the radius and height
5 10
Area:471.000000 ; Volume:785.000000
1.cylinder 2.cone 3.sphere 4.exit
enter your choice
enter the radius and height
7 15
Area:517.693726 ; Volume:769.299988
1.cylinder 2.cone 3.sphere 4.exit
enter your choice
enter the radius and height
8 13
Area:803.840027 ; Volume:2143.573242
1.cylinder 2.cone 3.sphere 4.exit
enter your choice
enter correct value
1.cylinder 2.cone 3.sphere 4.exit
enter your choice
```

dslab.c | lab1.html | X | practice.html

```
import java.util.*;
class grades
public static void main(String[] args)
    int cie, see;
    double z,total;
    Scanner sc=new Scanner(System.in);
    System.out.println("enter cie marks out of 50");
    cie=sc.nextInt();
    System.out.println("enter see marks out of 100");
    see=sc.nextInt():
    z=see/2.0;
    total=z+cie;
    if(total>=90 && total<=100)
    System.out.println("Grade: S");
    else if(total>=80 && total<=89)
    System.out.println("Grade: A");
    else if(total>=70 && total<=79)
    System.out.println("Grade: B");
    else if(total>=60 && total<=69)
    System.out.println("Grade: C");
    else if(total>=50 && total<=59)</pre>
    System.out.println("Grade: D");
    else if(total>=40 && total<=49)
    System.out.println("Grade: E");
    else
    System.out.println("Grade: F");
```

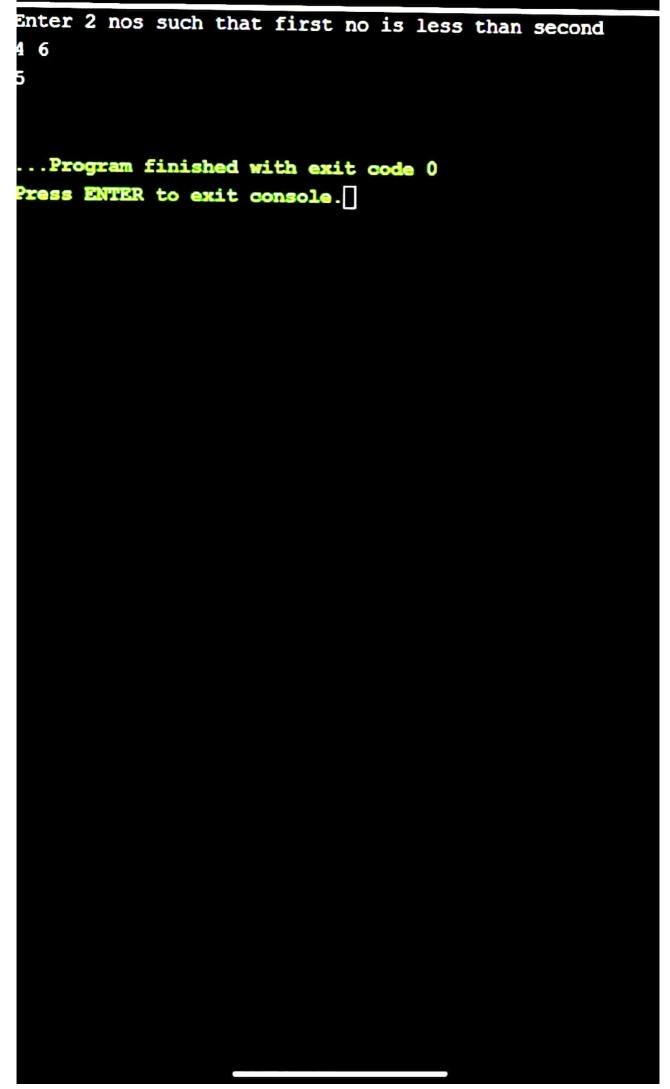


```
class Rows{
1
      public static void main(String args[]) {
2345
             int a[][]=new int[4][];
             a[0]=new int[1];
            a[1]=new int[2];
6
            a[2]=new int[3];
7
            a[3]=new int[4];
8
9
          int i, j, k=1;
0
          for(i=0;i<4;i++)
1 2 3
          for(j=0;j<i+1;j++){
              a[i][j]=k;
              k++;
         for(i=0;i<4;i++){
         for(j=0;j<i+1;j++)
         System.out.print(a[i][j]+" ");
         System.out.println();
```

```
C:\workspace>java Rows
1
2 3
4 5 6
7 8 9 10
C:\workspace>_
```

```
#include<stdio.h>
void prime(int x, int y);
int main()
    printf("Enter 2 nos such that first no is less than second\n");
scanf("%d %d",&a,&b);
    prime(a,b);
    return 0;
void prime(int x, int y)
    for(int i=x;i<=y;i++)
     int flag=0;
     if(i==1)
     printf("1 neither composite nor prime no\n");
    for(int j=2;j<=i/2;j++)
    if(i%j==0)
    flag=1;
    break;
    if(flag!=1)
    printf("%d\n",i);
```

Scanned with CamScanner



```
#include <math.h>
int main()
    char name[5][20];
   int ele[20];
   int i, j, x, ctr1, ctr2, ctr3;
    ctr1 = ctr2 = ctr3 = 0;
    for (i = 0; i < 5; i++)
        printf("Enter name of student %d\n", i + 1);
        scanf("%s", name[i]);
        printf("---CHOICE OF ELECTIVES---\n");
       printf("1. Internet of Things\n");
        printf("2. Advanced Java and J2EE\n");
       printf("3. Advanced Data Structures\n");
       printf("Enter your choicel\n");
       scanf("%d", &ele[1]);
   printf("---CHOICE OF ELECTIVES---\n");
   printf("1. Internet of Things\n");
   printf("2. Advanced Java and J2EE\n");
   printf("3. Advanced Data Structures\n");
   printf("Enter the elective for which you want\nto display the student :\n");
   scanf("%d", &x);
   for(i = 0; i < 5; i++)
       if(ele[i] = x)
           printf("Name %d : %s\n",i+1, name[i]);
   for(i = 0; i < 5; i++)
       \mathbf{if} (ele[i] = 1)
           ctr1++;
       else if (ele[i] == 2)
           ctr2++;
       else
```

```
ctr3++;
printf("The number of students in Elective 1 are : %d\n", ctr1);
printf("The number of students in Elective 2 are : %d\n", ctr2);
printf("The number of students in Elective 3 are : %d\n", ctr3);
if (ctr1 < 2)
{
    printf("Course 1 has been floated!\n");
    for(i=0; i < 5; i++)
        if(ele[i] == 1)
            printf("2. Advanced Java and J2EE\n");
            printf("3. Advanced Data Structures\n");
            printf("Enter your choice!\n");
            scanf("%d", &ele[i]);
}
else if (ctr2 < 2)
    printf("Course 2 has been floated[\n");
    for(i=0; i < 5; i++)
        if(ele[i] == 2)
            printf("1. Internet of Things\n");
            printf("3. Advanced Data Structures\n");
            printf("Enter your choicel\n");
            scanf("%d", &ele[i]);
    printf("Course 3 has been floated!\n");
    for(i=0; i < 5; i++)
        if(ele[i] == 3)
```

```
printf("1. Internet of Things\n");
            printf("2. Advanced Java and J2EE\n");
            printf("Enter your choice!\n");
scanf("%d", &ele[i]);
ctr1 = ctr2 = ctr3 =0;
for(i = 0; i < 5; i++)
    if (ele[i] == 1)
        ctr1++:
    else if (ele[i] == 2)
        ctr2++;
    else
        ctr3++;
printf("The number of students in Elective 1 are : %d\n", ctr1);
printf("The number of students in Elective 2 are : %d\n", ctr2);
printf("The number of students in Elective 3 are : %d\n", ctr3);
if (ctr1 |= 0)
    printf("---THE STUDENTS IN ELECTIVE 1---\n");
    for(i = 0; i < 5; i++)
        if(ele[i] == 1)
            printf("Name %d : %s\n", i+1,name[i]);
   (ctr2 |= 0)
    printf("---THE STUDENTS IN ELECTIVE 2---\n");
    for(i = 0; i < 5; i++)
    €
        if(ele[i] == 2)
            printf("Name %d : %s\n", i+1, name[i]);
    }
```

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91 92

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98 99

90

91 92 93

84 85

**36** 

97 98

**39** 

11

13 14

15

16

17 18

19

20

```
if (ctr3 |= 0)
{
    printf("---THE STUDENTS IN ELECTIVE 3---\n");
    for(i = 0; i < 5; i++)
    {
        if(ele[i] == 3)
            printf("Name %d : %s\n", i+1, name[i]);
    }
}
return 0;</pre>
```

× / -1

## Enter name of student 1

rahul

- ---CHOICE OF ELECTIVES---
- 1. Internet of Things
- 2. Advanced Java and J2EE
- 3. Advanced Data Structures
- Enter your choice!

1

- Enter name of student 2
- suresh
- ---CHOICE OF ELECTIVES---
- Internet of Things
- Advanced Java and J2EE
- 3. Advanced Data Structures
- Enter your choice!

1

- Enter name of student 3
- mythili
- --- CHOICE OF ELECTIVES---
- Internet of Things
- 2. Advanced Java and J2EE
- Advanced Data Structures
- Enter your choice!

2

- Enter name of student 4
- ramesh
- ---CHOICE OF ELECTIVES---
- Internet of Things