

Hello.java - Notepad

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```
class Hello{  
public static void main (String[] args){  
System.out.println("hello world");  
}  
}
```

Command Prompt

Microsoft Windows [Version 10.0.18363.418]
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C:\Users\Pooja K>cd Desktop

C:\Users\Pooja K\Desktop>javac Hello.java

C:\Users\Pooja K\Desktop>java Hello
Hello world

C:\Users\Pooja K\Desktop>

Largest.java - Notepad

```
File Edit Format View Help
import java.util.Scanner;
class Largest{
public static void main(String[] args){
int a,b,c;
Scanner in=new Scanner(System.in);
System.out.println("enter the value of a,b&c");
a=in.nextInt();
b=in.nextInt();
c=in.nextInt();
if(a>b&&a>c)
System.out.println("a="+a+" is largest");
if(b>a&&b>c)
System.out.println("b="+b+" is largest");
if(c>a&&c>b)
System.out.println("c="+c+" is largest");
}
}
```

Command Prompt

Microsoft Windows [Version 10.0.18363.418]
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C:\Users\Pooja K>cd DESKTOP

C:\Users\Pooja K\Desktop>javac Largest.java

C:\Users\Pooja K\Desktop>java Largest

enter the value of a,b&c

3

4

7

c=7 is largest

C:\Users\Pooja K\Desktop>

.class

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Input.java - Notepad

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```
import java.util.Scanner;
class Input{
public static void main(String args[])
{
Scanner in =new Scanner(System.in);
System.out.println("Enter value of n:");
int n=in.nextInt();
System.out.println("Numbers are: ");
for(int i=1;i<=n;i++)
System.out.println(i);
}
```

```
System.out.println("Windows [version 10.0.18363.418]");  
int n=in.nextInt();  
System.out.println("Microsoft Corporation. All rights reserved.");  
for(int i=1;i<=n;i++)  
System.out.print(i);  
}  
}  
C:\Users\Pooja K>cd Desktop  
System.out.println("C:\Users\Pooja K\Desktop>javac Input.java");  
C:\Users\Pooja K\Desktop>java Input  
Enter value of n:  
8  
Numbers are:  
1  
2  
3  
4  
5  
6  
7  
8  
C:\Users\Pooja K\Desktop>
```



Type here to search



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Grade.java - Notepad

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```
import java.util.*;
class Grade{
public static void main(String args[])
{
int c,s;
Scanner sc =new Scanner(System.in);
System.out.println("Enter your CIE marks");
c=sc.nextInt();
System.out.println("Enter your SEE marks");
s=sc.nextInt();
double actu_s=s/2;
double score=actu_s+c;
if(score>=90)
System.out.println("S grade");
if(score>=80&&score<90)
System.out.println("A grade");
if(score>=70&&score<80)
System.out.println("B grade");
if(score>=60&&score<70)
System.out.println("C grade");
if(score>=40&&score<60)
System.out.println("D grade");
if(score<40)
System.out.println("F grade");
}
```

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C:\Users\Pooja K>cd desktop

C:\Users\Pooja K\Desktop>javac Grade.java

C:\Users\Pooja K\Desktop>java Grade

Enter your CIE marks

49

Enter your SEE marks

95

S grade

C:\Users\Pooja K\Desktop>_

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```
import java.util.Scanner;
class Prime
```

```
public static void main(String[] args)
{
    Scanner sc=new Scanner(System.in);
    System.out.print("Enter Starting Number : ");
    int start = sc.nextInt();
    System.out.print("Enter Ending Number : ");
    int end = sc.nextInt();
    System.out.println("Prime numbers between "+start+" and "+end+" are : ");
    int count;
    for(int i = start ; i <= end ; i++)
    {
        count = 0;
        for(int j = 1 ; j <= i ; j++)
        {
            if(i % j == 0)
                count = count+1;
        }
        if(count == 2)
            System.out.println(i);
    }
}
```



Type here to search



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C:\Users\Pooja K>cd desktop

C:\Users\Pooja K\Desktop>javac Prime.java

C:\Users\Pooja K\Desktop>java Prime

Enter Starting Number : 3

Enter Ending Number : 16

Prime numbers between 3 and 16 are :

3

5

7

11

13

C:\Users\Pooja K\Desktop>_

Pattern.java - Notepad

File Edit Format View Help

```
import java.util.Scanner;
class Pattern{
public static void main(String args[]){
int n,i,j,k=1;
System.out.println("enter the value of n");
Scanner in=new Scanner(System.in);
n=in.nextInt();
for (i=1;i<=n;i++)
{
for (j=1;j<i;j++){
System.out.print(k+"");
k++;
}
System.out.println();
}
}
}
```

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C:\Users\Pooja K>cd downloads

C:\Users\Pooja K\Downloads>javac Pattern.java

C:\Users\Pooja K\Downloads>java Pattern

enter the value of n

8

1

23

456

78910

1112131415

161718192021

22232425262728

C:\Users\Pooja K\Downloads>_

```
1 #include <stdio.h>
2 #include <stdlib.h>
3
4 struct Stud {
5     char name[40];
6     int elective;
7 };
8
9 int main(){
10    int i,j,choice,n,least;
11    int calc[3] = {0,0,0};
12    char electives[3][40] = {"IOT","Advanced Java and"
13                            "J2EE","Advanced data structures"};
14    printf("Enter number of students: ");
15    scanf("%d",&n);
16
17    struct Stud student[n];
18
19    for(i=0;i<3;i++){
20        printf("\n%d.%s",i+1,electives[i]);
21    }
22
23    for(i=0;i<n;i++){
24        printf("\nEnter the name of student: ");
25        scanf("%s",student[i].name);
26        printf("Enter the choice: ");
```



```
25         printf("Enter the choice: ");
26         scanf("%d",&student[i].elective);
27     }
28
29     for(i=0;i<n;i++){
30         if(student[i].elective == 1){
31             calc[0]++;
32         }else if(student[i].elective == 2){
33             calc[1]++;
34         }else{
35             calc[2]++;
36         }
37     }
38
39     printf("\nOperation 1: \n");
40     printf("Enter the choice of elective to get the
41         list for: \n");
42     int x;
43     scanf("%d",&x);
44
45     for(i=0;i<n;i++){
46         if(student[i].elective == x){
47             printf("> %s\n",student[i].name);
48         }
49     }
```



```
50     printf("Operation 2\n");
51     printf("Number of students in %s elective: %d\n",
52            electives[0], calc[0]);
53     printf("Number of students in %s elective: %d\n",
54            electives[1], calc[1]);
55     printf("Number of students in %s elective: %d\n",
56            electives[2], calc[2]);  [
```



```
57     printf("Operation 3\n");
58
59     if(calc[0] < 2){
60         printf("%s students must chose another elective
61                due to less number\n", electives[0]);
62         printf("choose between Ad.java(2) and ad.data
63                structures(3)\n");
64         scanf("%d", &choice);
65         for(i=0; i<n; i++){
66             if(student[i].elective == 1){
67                 student[i].elective = choice;
68                 calc[0]--;
69                 calc[choice-1]++;
70             }
71         }
72     }
73
74     if(calc[1] < 2){
```



```
71    printf("%s students must chose another elective  
72        due to less number\n",electives[1]);  
73    printf("choose between IOT(1) and J2EE(3)\n");  
74    scanf("%d",&choice);  
75    for(i=0;i<n;i++){  
76        if(student[i].elective == 2){  
77            student[i].elective = choice;  
78            calc[0]--;  
79            calc[choice-1]++;  
80        }  
81    }  
82    if(calc[2] < 2){  
83        printf("%s students must chose another elective  
84        due to less number\n",electives[2]);  
85        printf("choose between Advanced Java(1) and J2EE  
86        (2)\n");  
87        scanf("%d",&choice);  
88        for(i=0;i<n;i++){  
89            if(student[i].elective == 3){  
90                student[i].elective = choice;  
91            }  
92            calc[0]--;  
93            calc[choice-1]++;  
94        }  
95    }
```



main.c

```
88     student[i].elective = choice,
89     }
90     calc[0]--;
91     calc[choice-1]++;
92   }
93 }
94 printf("Number of students in %s elective: %d\n",
95 electives[0],calc[0]);  I
96 printf("Number of students in %s elective: %d\n",
97 electives[1],calc[1]);
98 printf("Number of students in %s elective: %d\n",
99 electives[2],calc[2]);
100
101 printf("Operation 4\n");
102
103 for(i=0;i<3;i++){
104   printf("\nStudents in %s: \n",electives[i]);
105   for(j=0;j<n;j++){
106     if(student[j].elective == (i+1)){
107       printf("> %s\n",student[j].name);
108     }
109   }
110 }
```

```
● clang-7 -pthread -lm -o main main.c
● ./main
```

Enter number of students: 7

- 1.IOT
- 2.Advanced Java and J2EE
- 3.Advanced data structures

Enter the name of student: ad

Enter the choice: 2

Enter the name of student: er

Enter the choice: 1

Enter the name of student: asg

Enter the choice: 3

Enter the name of student: yui

Enter the choice: 3

Enter the name of student: agh

Enter the choice: 1

Enter the name of student: qvt

Enter the choice: 1

Enter the name of student: ji

Enter the choice: 3

Operation 1:

Enter the choice of elective to get the list for:

Enter the choice of elective to get the list for:

3

> asg

> yui

> ji

Operation 2

Number of students in IOT elective: 4

Number of students in Advanced Java and J2EE elective: 0

Number of students in Advanced data structures elective: 3

Operation 3

Advanced Java and J2EE students must chose another elective
due to less number

choose between IOT(1) and J2EE(3)

1

Number of students in IOT elective: 4

Number of students in Advanced Java and J2EE elective: 0

Number of students in Advanced data structures elective: 3

Operation 4

Students in IOT:

> ad

> er

> agh

> qvt

Students in Advanced Java and J2EE:

Students in Advanced data structures:

> asg

> yui

> ji

>