

```
1 import java.util.*;
2 class Main
3 public static void main (String[] args) {
4     int total;
5     Scanner in=new Scanner(System.in);
6     System.out.println("enter the SEE marks out of 100 ");
7     int SEE=in.nextInt();
8     total=(CIE+(SEE/2));
9     if(total>=89)
10    {
11        System.out.println("your grade is A")
12    }
13    else if(total>=80)
14    {
15        System.out.println("your grade is B");
16    }
17    }
18    else if(total>=60)
19    {
20        System.out.println("your grade is C");
21    }
22 }
```

```
10    int SEE=in.nextInt();
11    total=(CIE+(SEE/2));
12    if(total>=89)
13    {
14        System.out.println("your grade is A");
15    }
16    else if(total>=80)
17    {
18        System.out.println("your grade is B");|
19    }
20    }
21    else if(total>=60)
22    {
23        System.out.println("your grade is C");
24    }
25    }
26    else if(total>=80)
27    {
28        System.out.println("your grade is D");
29    }
30    }
31    else
32    {
33        System.out.println("your grade is E");
34    }
35}
36}}
```

enter the SEE marks out of 100

enter CIE marks out of 50

89

45

your grade is A

...Program finished with exit code 0

Press ENTER to exit console.

```
1
2  public class Main{
3  public static void main (String[] args) {
4      /* code */System.out.println("hello world");
5  }}
```

▼ ▾ ⚡  
hello world

...Program finished with exit code 0  
Press ENTER to exit console. █

## Main.java

```
1 import java.util.*;
2 class Main
3 {
4     public static void main(String[]args)
5     {
6         int i,j,n,k=1;
7         System.out.println("enter the value of n");
8         Scanner sc=new Scanner(System.in);
9         n=sc.nextInt();
10        for(i=1;i<=n;i++)
11        {
12            for(j=1;j<=i;j++)
13            System.out.print(k++);
14            System.out.println(" ");
15        }
16    }
17 }
18 }
```

I

```
enter the value of n
4
1
23
456
78910
```

input

```
... Program finished with exit code 0
Press ENTER to exit console.□
```

```
1 import java.util.Scanner;
2 class Main{
3     public static void main(String[] args)
4     {
5         int i,n;
6         Scanner sc=new Scanner(System.in);
7         System.out.print("enter the value of n");
8         n=sc.nextInt();
9         System.out.println("numbers are:");
10        for(i=1;i<=n;i++)
11        {
12            System.out.println(i);
13        }
14    }
15 }
16 }
```

enter the value of n 10

numbers are:

1

2

3

4

5

6

7

8

9

10

...Program finished with exit code 0

Press ENTER to exit console. █

```
1 import java.util.Scanner;
2 class Main{
3     public static void main(String[] args)
4     {
5         int a,b,c;
6         Scanner sc=new Scanner(System.in);
7         System.out.print("enter the first number:");
8         a=sc.nextInt();
9         System.out.print("enter the second number:");
10        b=sc.nextInt();
11        System.out.print("enter the third number:");
12        c=sc.nextInt();
13        if(a>b&&a>c)
14        {
15            System.out.println("largest number is:"+a);
16
17        }
18        else if(b>a&&b>c)
19        {
20            System.out.println("largest number is:"+b);
21        }
22        else{
23            System.out.println("largest number is:"+c);
24        }
25    }
26 }
27
28 }
29 }
```

```
enter the first number:10  
enter the second number:20  
enter the third number:30  
largest number is:30
```

```
...Program finished with exit code 0  
Press ENTER to exit console.■
```

```
1 import java.util.Scanner;
2 class Main{
3 public static void main (String[] args) {
4     Scanner sc=new Scanner(System.in);
5     int a,b,i,j,count;
6     System.out.println("enter the lower bound of interval:");
7     a=sc.nextInt();
8     System.out.println("enter the upper bound of interval:");
9     b=sc.nextInt();
10    System.out.println("prime numbers bw"+a+"and"+b+"are:");
11    for(i=a;i<=b;i++)
12    {
13        count=0;
14        for(j=1;j<=i;j++)
15        {
16            if(i%j==0)
17                count++;
18        }
19        if(count==2)
20            System.out.println(i);
21    }
22    sc.close();
23
24 }
25 }
```

enter the lower bound of interval:

10

enter the upper bound of interval:

100

prime numbers bw10and100are:

11

13

17

19

23

29

31

37

41

43

47

53

59

61

67

71

73

79

83

89

97

...Program finished with exit code 0

Press ENTER to exit console.

```
main.c
1
2
3     #include<stdio.h>
4     #include<string.h>
5     int iot;
6     int advanced_java;
7     int advanced_data; typedef struct student {
8         char name[50];
9         char coarse[50];
10    }std;
11    int main() {
12        char elective1[50] = "internet of things";
13        char elective2[50] = "advanced Java and J2EEE";
14        char elective3[50] = "advanced DataStructures";
15        printf("courses available are \n \t 1.internet of things \n \t 2.advanced java and J2EEE\n \t 3.advanced DataStructures");
16        int n;
17        int choice;
18        printf("enter the number of students \n");
19        scanf("%d",&n);
20        std s[n];
21        for(int i=0;i<n;i++)
22        {
23            printf("enter the name of the students %d \n", (i+1));
24            scanf("%s",s[i].name);
25            fflush(stdin);
26            printf("enter the elective of the student %d \n", (i+1));
27            printf("enter your choice \n");
28            fflush(stdin);
29            scanf("%d",&choice);
30            switch(choice)
31            {
32                case 1:
33                    s[i].elective = elective1;
34                    break;
35                case 2:
36                    s[i].elective = elective2;
37                    break;
38                case 3:
39                    s[i].elective = elective3;
40                    break;
41                default:
42                    printf("invalid choice");
43            }
44        }
45        printf("the details of the students are \n");
46        for(int i=0;i<n;i++)
47        {
48            printf("student %d name is %s and elective is %s \n", (i+1), s[i].name, s[i].elective);
49        }
50    }
51
```

```
30     switch(choice)
31     {
32         case 1:
33             strcpy(s[i].coarse,elective1);
34             break;
35
36         case 2:
37             strcpy(s[i].coarse,elective2);
38             break;
39
40         case 3:
41             strcpy(s[i].coarse,elective3);
42             break;
43
44     }
45     fflush(stdin);
46
47 }
48 for(int i=0;i<n;i++)
49 {
50     if(strcmp(elective1,s[i].coarse,strlen(elective1))==0)
51     {
52         printf("Student %s has selected %s coarse\n",s[i].name,s[i].coarse);
53         iot++;
54     }
55     if(strcmp(elective2,s[i].coarse,strlen(elective2))==0)
56     {
57         printf("Student %s has selected %s coarse\n",s[i].name,s[i].coarse);
58         advanced java++;
59     }
}
```

```
59         advanced_java++;
60     }
61     if(strncmp(elective3,s[i].coarse,strlen(elective3))==0)
62     {
63         printf("Student %s has selected %s coarse\n",s[i].name,s[i].coarse);
64         advanced_data++;
65     }
66     printf("*****\n");
67     printf("number of students applied for internet of things is %d \n",iot);
68     printf("number of students applied for advanced Java and JEEE is %d \n",advanced_java);
69     printf("number of students applied for advanced data Structure is %d \n",advanced_data);
70     {
71         for(int i=0;i<n;i++)
72         {
73             if(strcmp(s[i].coarse,elective1,strlen(elective1))==0)
74             {
75                 printf("%s please select from the other two courses this course canot be flo");
76                 printf("2.advanced java and JEEE \n 3.advanced data structures \n");
77                 printf("enter new choice \n");
78                 scanf("%d",&choice);
79                 iot=0;
80                 switch(choice)
81                 {
82                     case 2: strcpy(s[i].coarse,elective2);
83                         advanced_java++;
84                         break;
85                     case 3: strcpy(s[i].coarse,elective3);
86                         advanced_data++;
87                         break;
88                 }
89             }
```

```
88
89
90
91     }
92
93     if(advanced_java<30)
94     {
95         for(int i=0;i<n;i++)
96         {
97             if(strncmp(s[i].coarse,elective2,strlen(elective2))==0){
98                 printf(" %s please select from the other two coarses this coarse cannot be fl
99                 printf("1.internet of things \n 3.advanced Data Structures\n");
100                printf("enter your choice \n");
101                scanf("%d",&choice);
102                advanced_java=0;
103                switch(choice){
104                    case 1: strcpy(s[i].coarse,elective1);
105                    iot++;
106                    break;
107                    case 3: strcpy(s[i].coarse,elective3);
108                    advanced_data++;
109                    break;
110                }
111            }
112            if(advanced_data<30)
113            {
114                for(int i=0;i<n;i++)
115                {
116                    if(strncmp(s[i].coarse,elective3,strlen(elective3))==0){
117                        printf(" %s please select from the other two coarses this coarse cannot
118                        printf("1.internet of things \n 2.advanced java and J3EEE\n");
```



```
111                     if(advanced_data<30)
112             {
113                 for(int i=0;i<n;i++)
114                 {
115                     if(strncmp(s[i].coarse,elective3,strlen(elective3))==0){
116                         printf(" %s please select from the other two coarsees this coarse cannot be flo"
117                         printf("1.internet of things \n 2.advanced java and J3EEE\n");
118                         printf("enter your choice \n");
119                         scanf("%d",&choice);
120                         advanced_data=0;
121                         switch(choice){
122                             case 1: strcpy(s[i].coarse,elective1);
123                             iot++;
124                             break;
125                             case 2: strcpy(s[i].coarse,elective2);
126                             advanced_java++;
127                             break;
128                         }
129                     }
130                 }
131                 printf("*****AfterReselection*****\n");
132                 printf("number of students applied for internet of things is: %d\n",iot);
133                 printf("number of students applied for advanced java and J3EEE is %d\n",advanced_java);
134                 printf("number of students applied for advanced data Structure is %d\n",advanced_data);
135                 for(int i=0;i<n;i++){
136                     printf("%s has selected %s coarse \n ",s[i].name,s[i].coarse);}
137             }
138         }
139     }
140 }
```

coarses available are

- 1.internet of things
- 2.advanced java and J2EEE
- 3.data structures

enter the number of students

3

enter the name of the students 1

james

enter the elective of the student 1

enter your choice

3

enter the name of the students 2

jery

enter the elective of the student 2

enter your choice

2

enter the name of the students 3

shiv

enter the elective of the student 3

enter your choice

1

Student james has selected advanced DataStructures coarse

\*\*\*\*\*

number of students applied for internet of things is 0

number of students applied for advanced Java and J3EEE is 0

number of students applied for advanced data Structure is 1

shiv please select from the other two coarses this coarse canot be floated

2.advanced java and J3EEE

3.advanced data structures

enter new choice

2

```
1.internet of things
3.advanced Data Structures
enter your choice
3
james please select from the other two coarses this coarse cannot be floated
1.internet of things
2.advanced java and J3EEE
enter your choice
2
shiv please select from the other two coarses this coarse cannot be floated
1.internet of things
2.advanced java and J3EEE
enter your choice
2
*****AfterReselection*****
number of students applied for internet of things is: 1
number of students applied for advanced java and J3EEE is 2
number of students applied for advanced data Structure is 0
james has selected advanced Java and J2EEE coarse
jery has selected internet of things coarse
shiv has selected advanced Java and J2EEE coarse
Student jery has selected internet of things coarse
*****
number of students applied for internet of things is 2
number of students applied for advanced Java and J3EEE is 2
number of students applied for advanced data Structure is 0
```