

Main.java

```
1 import java.util.Scanner;
2 class Main
3 {
4     public static void main(String[] args)
5     {
6         Scanner sc=new Scanner(System.in);
7         int a,b,i,j,count;
8         System.out.print("Enter the lower bound of interval : ");
9         a = sc.nextInt();
10        System.out.print("Enter the upper bound of interval : ");
11        b = sc.nextInt();
12        System.out.println("Prime numbers between "+a+" and "+b+" are : ");
13        for( i = a ; i <= b ; i++)
14        {
15            count = 0;
16            for( j = 1 ; j <= i ; j++)
17            {
18                if(i % j == 0)
19                    count = count+1;
20            }
21            if(count == 2)
22                System.out.println(i);
23        }
24        sc.close();
25    }
26 }
```

Main.java

```
Enter the lower bound of interval : 15
```

```
Enter the upper bound of interval : 25
```

```
Prime numbers between 15 and 25 are :
```

```
17
```

```
19
```

```
23
```

```
...Program finished with exit code 0
```

```
Press ENTER to exit console.
```

main.c

```
1 #include<stdio.h>
2 #include<string.h>
3 int iot;
4 int advanced_java;
5 int advanced_data; typedef struct student {
6 char name[50];
7 char course[50];
8 }std;
9 int main() {
10 char elective1[50] = "Internet Of Things";
11 char elective2[50] = "Advanced Java And J2EEE";
12 char elective3[50] = "Advanced DataStructures";
13 printf("Courses available are \n \t 1:Internet Of Things\n \t2:Advanced Java And J2EEE\n \t3:Advanced DataS
14 int n;
15 int choice;
16 printf("Enter the number of students\n"); scanf(" %d",&n);
17 std s[n];
18 for(int i=0;i<n;i++)
19 {
20 printf("Enter the name of student %d \n", (i+1)); scanf(" %s", s[i].name);
21 fflush(stdin);
22 printf("Enter the elective of student %d \n", (i+1)); printf("enter your choice\n");
23 fflush(stdin);
24 scanf(" %d", &choice); switch(choice)
25 {
26 case 1:
27 strcpy(s[i].course,elective1); break;
28 case 2: strcpy(s[i].course,elective2); break;
29 case 3: strcpy(s[i].course,elective3);
30 }
```

```
31 break; }
32 fflush(stdin); }
33 for(int i=0;i<n;i++) {
34 if(strcmp(elective1,s[i].course,strlen(elective1))==0) {
35 printf("Student %s has selected for %s course\n",s[i].name,s[i].course);
36 iot++; }
37 if(strcmp(elective2,s[i].course,strlen(elective2))==0) {
38 printf("Student %s has selected for %s course\n",s[i].name,s[i].course);
39 advanced_java++; }
40 if(strcmp(elective3,s[i].course,strlen(elective3))==0) {
41 printf("Student %s has selected for %s course\n",s[i].name,s[i].course);
42 advanced_data++; }
43 }
44 printf("*****\n");
45 printf("Number of student applied for internet of things is %d\n",iot);
46 printf("Number of students applied for Advanced java and J2EEE is %d\n",advanced_java); printf("Number of
47 {
48 for(int i=0;i<n;i++)
49
50 {
51 if(strcmp(s[i].course,elective1,strlen(elective1))==0) {
52 printf(" %s please select from the other two course this course cannot be floated\n",s[i].name);
53 printf("2:Advanced Java And J2EEE\n3:Advanced DataStructures\n"); printf("Enter your new choice\n");
54 scanf(" %d",&choice);
55 iot=0;
56 switch(choice) {
57 case 2: strcpy(s[i].course,elective2); advanced_java++;
58 break;
59 case 3: strcpy(s[i].course,elective3); advanced_data++;
60 break;
```

```
60 break;
61 }
62 } }
63 } if(advanced_java<30) {
64 for(int i=0;i<n;i++) {
65 if(strncmp(s[i].course,elective2,strlen(elective2))==0) {
66
67 printf(" %s please select from the other two course this course cannot be floated\n",s[i].name);
68 printf("1:Internet Of Things\n3:Advanced DataStructures\n"); printf("Enter your new choice\n");
69 scanf(" %d",&choice);
70 advanced_java=0;
71 switch(choice) {
72 case 1: strcpy(s[i].course,elective1); iot++;
73 break;
74 case 3: strcpy(s[i].course,elective3); advanced_data++;
75 break;
76 }
77 } }
78 }
79 if(advanced_data<30) {
80 for(int i=0;i<n;i++) {
81 if(strncmp(s[i].course,elective3,strlen(elective3))==0) {
82 printf(" %s please select from the other two course this course cannot be floated\n",s[i].name);
83 printf("1:Internet Of Things\n2:Advanced JAVA and J2EEE\n");
84
85 printf("Enter your new choice\n"); scanf(" %d",&choice); advanced_data=0;
86 switch(choice)
87 {
88 case 1:
89 strcpy(s[i].course,elective1); iot++;
```

```
88 case 1:  
89 strcpy(s[i].course,elective1); iot++;  
90 break;  
91 case 2: strcpy(s[i].course,elective2); advanced_java++;  
92 break;  
93 }  
94 } }  
95 }  
96 printf("*****AfterReselection*****\n");  
97 printf("Number of student applied for internet of things is %d\n",iot);  
98 printf("Number of students applied for Advanced java and J2EEE is %d\n",advanced_java); printf("Number o  
99 -for(int i=0;i<n;i++) {  
100 printf("%s has selected %s course\n",s[i].name,s[i].course); }  
101 }  
102 }
```