

1) import java.io.*;

class Main {

public static void main (String[] args) {

int total, CIE;

Scanner cin = new Scanner (System.in);

System.out.println ("enter the SEE marks out
of 100");

int SEE = cin.nextInt();

total = (CIE + (SEE / 2));

if (total >= 89)

{

System.out.println ("your grade is A");

else if (total >= 80)

System.out.println ("your grade is B");

else if (total >= 60)

System.out.println ("Your grade is C");

else

System.out.println ("your grade is E");

}

output: enter SEE marks out of 100

2) public class Main {

{ public static void main (String[] args)

System.out.println ("hello world");

}

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

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

5. import java.util.Scanner;
class Main {
 public static void main (String [] args)
 {
 int a, b, c;
 Scanner sc = new Scanner (System.in);
 System.out.println ("enter the first no.");
 a = sc.nextInt();
 System.out.println ("enter the second no.");
 b = sc.nextInt();
 System.out.println ("enter the third no.");
 c = sc.nextInt();
 if (a > b && a > c)
 {
 System.out.println ("largest number is: "+a);
 } else if (b > a && b > c)
 {
 System.out.println ("largest number is: "+b);
 } else {
 System.out.println ("largest number is: "+c);
 }
 }
}

6. import java.util.Scanner;
class Main {
 public static void main (String [] args) {
 Scanner sc = new Scanner (System.in);
 int a, b, i, j, count;
 System.out.println ("enter the lower bound of
 interval: #");

a = sc.nextInt();

System.out.println("Enter the upper bound of the interval");

b = sc.nextInt();

System.out.println("prime numbers between " + a + " and " + b + " are: ");

for (i = a; i <= b; i++)

count = 0

for (j = 1; j <= i; j++)

if (i % j == 0)

count++;

}

if (count == 2)

System.out.println(i);

sc.close();

}

7. #include <stdio.h>

#include <string.h>

int i, j;

int advancedJava;

int advancedData;

typedef struct student {

char name[50];

char course[50];

} std;

int main() {

char electives[50] = "introduction of Ithings";

char electives2[50] = "advanced Java 2 (J3EE)";

char electric3[50] = " advanced datastructures");
printf("courses available are 1. n + 1. interest of
things in it 2. advanced Java & IEEE in it
3. advanced data structures ");
int n, choice;

```
printf("enter the no. of students : ");  
scanf("%d", &n);  
std::string s[n];  
for (int i = 0; i < n; i++)  
{
```

```
printf("enter the name of the students : %d \n", i+1);  
printf("enter your choice \n");  
fflush(stdin);
```

```
scanf("%s", s[i]);
```

```
printf("enter the electric of the student %d  
in ", i+1);
```

```
scanf("%d", &choice);
```

```
switch(choice)  
{
```

```
case 1:
```

```
strcpy(s[i].course, electric1);  
break;
```

```
Case 2 :
```

```
strcpy(s[i].course, electric2);  
break;
```

```
Case 3
```

```
strcpy(s[i].course, electric3);  
break;
```

```
y  
fflush(stdin);
```

```
for (int i = 0; i < n; i++)  
{  
    if (strcmp (elective1, s[i].course, strlen(elective1)) == 0)  
        printf ("Student %d has selected %s course\n",  
               s[i].name, s[i].course);  
    i++;  
}  
  
if (strcmp (elective2, s[i].course, strlen(elective2)) == 0)  
{  
    printf ("student %d has selected %s course\n",  
           s[i].name, s[i].course);  
    advanced_Java++;  
}  
  
if (strcmp (elective3, s[i].course, strlen(elective3)) == 0)  
{  
    printf ("student %d has selected %s course\n",  
           s[i].name, s[i].course);  
    advanced_data++;  
}  
  
printf ("* * * * *\n");  
printf ("no of student applied for unlabel of thing  
is %d\n", i);  
printf ("no of students applied for advanced  
Java & JEEED is %d\n", advanced_Java);  
printf ("no of students applied for advanced  
data structure is %d\n", advanced_data);  
  
for (int i = 0; i < n; i++)  
{  
    if (strcmp (s[i].course, elective1, strlen(elective1)) == 0)  
        printf ("%d. S please select from the other two  
courses this course can't be floated\n");  
}
```

```
printf ("2. advanced Java & I3EEE \n3. advanced  
      data structures\n").  
printf ("Enter your choice\n")  
scanf ("%d", &choice);  
not = 0;  
switch (choice);  
not = 0 {  
    case 2: strcpy (s[i].course, elective2);  
              advanced_java++;  
              break;  
    case 3: strcpy (s[i].course, elective3);  
              advanced_data++;  
              break;  
}  
}  
if (advanced_java < 30)  
{  
    for (int i = 0; i < n; i++)  
    {  
        if (strcmp (s[i].course, elective2, strlen (elective2)) == 0)  
        {  
            printf ("\n1. Please select from the other 2 courses  
                  this course can't be floated\n");  
            printf ("1. internet of things \n 3. advanced  
                  data structures\n");  
            printf ("Enter your choice\n");  
            scanf ("%d", &choice);  
            advanced_java = 0;  
            switch (choice) {  
                case 1: strcpy (s[i].course, elective1);  
                          not++;  
                          break;  
            }  
        }  
    }  
}
```

case 3: sticky (S[i].course, electric 3);
 advanced data ++;
 break;

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```
if (advanced_data < 30) {
  for (int i = 0; i < n; i++) {
    if (strcmp(S[i].course, "electric 3") == 0)
      break;
  }
}
```

printf ("please select from the other two
 courses this course cannot be repeated\n");
 printf ("1. internet of things \n 2. advanced java
 & IEEE 'n').

```
printf ("with your choice \n");
scanf ("%d", &choice);
advanced_data = 0;
switch (choice) {
```

Case 1: sticky (S[i].course, electric 1);
 iot ++;

break;

Case 2: sticky (S[i].course, electric 2);
 advanced java ++;

break;

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printf ("**** after re-selection ****\n");
 printf ("no of students applied for internet of thing - %d\n");

printf ("no of students applied for Java & IEEE is - %d\n");

printf ("no of students applied for advanced data institution is - %d\n");

```
for (int i = 0; i < n; i++) {
  printf ("%d. %s has selected %s course \n", S[i].name, S[i].course);
```

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