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Programs for OOJ Lab - 2

1. Java pgm to print "Hello World

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

2.

```
import java.util.Scanner;
public class Main
{
public static void main (String[] args)
{
int a, b, c;
Scanner sc = new Scanner (System.in);
System.out.println ("Enter the first number:");
a = sc.nextInt();
System.out.println ("Enter the second number:");
b = sc.nextInt();
System.out.println ("Enter the third number:");
c = sc.nextInt();
if (a>=b && a>=c)
System.out.println (a+"is the largest Number");
else if (b>=a && b>=c)
System.out.println (b+" is the largest Number");
else
System.out.println (c+" is the largest Number");
}
}
```

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3.

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

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 lower bound of the
                              Interval: ");
        a = sc.nextInt ();
 System.out.println (" Enter Upper bound of the
                              Interval: ");
        b = sc.nextInt ();
 System.out.println (" Prime numbers b/w" "a+" &
"b+" are: ");
        for (i = a; i<=b; i++)
    {
        count = 0;
```

```
for(j=1; j<=i ; j++);
{
    if (i % j == 0)
count = count +1;
}
    if (count == 2)
System.out.println (i);
}
Sc.close();
}
}
```

(4)

```
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);
n = sc.nextInt();
for (i=1; i<=n; i++)
{
for (j=1; j<=i; j++)
System.out.print (k++);
System.out.println (" ");
}
}
}
```

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5.

```
import java.util.*;
Class Main
{
public static void main (String args[])
  { int total;
  Scanner in = new Scanner (System.in);
  System.out.println ("Enter the CIE marks out of
                                    50");
      int CIE = in.nextInt();
  System.out.println ("Enter the SEE marks out of
                                    100");
      int SEE = in.nextInt();
  total = (CIE + (SEE/2));
   if (total >=89)
{ System.out.println/" You have scored A grade");
}
  else if (total >=80)
{ System.out.println (" you have scored B grade");
}
  else if (total >=60)
{ System.out.println (" you have scored C grade");
  }
   else if (total >=40)
{ System.out.println (" you have scored D grade");
}
   else
System.out.println (" you have scored E grade");
   }
```

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7)

```
#include <stdio.h>
#include <string.h>
  int iot; int advanced_java;
  int advanced_data;
    type def Struct student { char name[50];
      char course[50]; }
      std;
    int main() { char elective1[50] = "Internet of Things";
char elective2[50] = "Advanced Java And J2EEE";
char elective3[50] = "Advanced Data Structures";
printf("Course available are \n \t 1: Internet of
things \n\t 2: Advanced Java And J2EEE \n
\t 3: Advanced data Structures \n");
  int n, choice;
  printf("Enter the No of Students \n");
    scanf("%d", &n);
     std s[n];
  for(int i=0; i<n; i++)
{ printf("Enter the Name of Student %d \n", (i+1));
    scanf("%s", s[i].name);
     fflush(stdin);
printf("Enter the elective of student %d \n", (i+1));
printf("enter your choice \n");
        fflush(stdin);
  scanf("%d", &choice);
      switch(choice)
{ case 1:
    strcpy(s[i].course, elective1);
      break;
    case 2:
  strcpy(s[i].course, elective2);
     break;
```

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```
case 3:
 strcpy(s[i].course, elective 3);
 break; }
 fflush(stdin); }
    for (int i=0; i<n; i++) {
     if (strncmp (elective1, s[i].course, strlen
(elective1)) ==0)
   {printf ("Student %s has selected for %s
course \n", s[i].name, s[i].course);
 iot ++; }
  if (strncmp(elective2, s[i].course, strlen(elective2))
      ==0)
  { printf ("Student %s has selected for %s
course \n", s[i].name, s[i].course);
  avdvanced_java ++; }
  else
  printf ("Student %s has selected for %s course
\n", s[i].name, s[i].course);
  advanced_data ++; }
  }
 printf ("*******\n");
 printf ("No of students Applied for Internet of
things is %d \n", iot);
 printf ("No of students Applied for Advanced java Ep
        J2EE is %d \n", advanced_java);
  printf ("No of student Applied for Advanced
   Data Structures is %d \n", advanced_data);
     if (iot < 30)
        {
   for (int i=0; i<n; i++)
  {
     if (strncmp(s[i].course, elective1, strlen
                 (elective1))=0)
```

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```
printf("%s please select from the other two
courses this course cannot be floated \n", s[i].name);
printf("2: Advanced Java And J2EEE \n 3: Advanced
data Structures \n");
printf("Enter your new choice \n");
scanf("%d", &choice);
    iot = 0;
Switch(choice)
{
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 (strncmp(s[i].course, elective2, strlen
    (elective2)) == 0)
{ printf("%s please select from the other 2
courses, this course cannot be floated \n", s[i].name);
printf("1. Internet of Things \n 3: Advan' data Structu
    \n");
printf("Enter your new choice \n");
scanf("%d", &choice);
advanced_java = 0;
Switch(choice)
{
case 1: Strcpy(s[i].course, elective1); iot++;
    break;
```

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```
case 3: Strcpy(s[i].course, elective3); advanced_data
        break;                                    ++;
    }
  }}}
   if (advanced_data < 30)
{
 for(int i=0; i<n; i++)
{ if (strcmp(s[i].course, elective3, strlen(elective3)
                                        ==0)
    {printf("\nplease select from the other 2
            courses \n", s[i].name);
printf("1. Internet of Things \n 2: Advanced
      Java & J2EEE \n");
printf("Enter your new choice \n");
 scanf("%d", &choice); Advanced_data=0;
 Switch (choice)
  {
  case 1:
   Strcpy(s[i].course, elective1); iot++;
break;
Case 2:
Strcpy(s[i].course, elective2); Advanced_java++;
 break;
  }
  }}}
Printf("**** After reselection ****\n");
printf("No of Student Applied for Internet of
        things is %d \n", iot);
printf("No of Students Applied for Advanced Java
      & J2EE is %d \n", advanced_java);
printf("No of Students Applied for Advanced data Structure
    is %d \n", advanced_data);
Printf("* * * * * * * * *\n");
```

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