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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: ");
n = 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 (" ");
     }
    }
   }
```

5.

```
import java.util.*;
class Main
{
public static void main(String a[] 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;
    typedef 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, elective3);
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);
advanced_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
        J2EEE 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)
```

```
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 Struct
    \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 (strncmp(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 & JEEE \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 Structures
     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);
}
}
```