1.Print hello world:

```
import java.util.Scanner;
 class hello
{
	public static void main(String[] args) {
		System.out.println("Hello World");

	}
}
```

```
Hello World
```

****

2. To find the largest among three using Java.

```
import java.util.Scanner;

class largest
{
	public static void main(String[] args) {
		System.out.println("enter the Numbers");

		Scanner input = new Scanner(System.in);
		int a =input.nextInt();
		int b =input.nextInt();
		int c = input.nextInt();

		if(a>=b&&a>=c){
		   System.out.println(a+" is the Largest");
		}
		else if (b>=a&&b>=c){
		   System.out.println(b+" is the Largest");
```

```
            }
            else{
               System.out.println(c+" is the Largest");
            }

        }
}
```

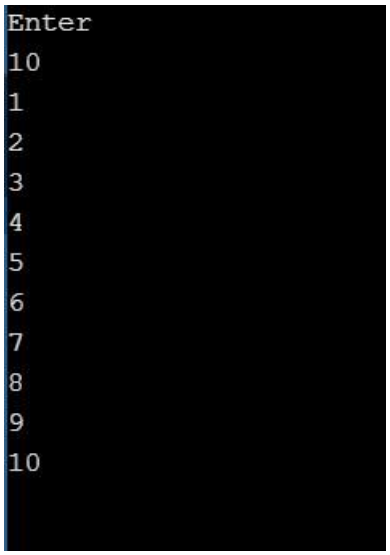
```
enter the Numbers
54
82
66
82 is the Largest
```

****

3.Print numbers from 1 to ‘n’ :

```
import java.util.Scanner;
class num
{
        public static void main(String[] args) {

        System.out.println("Enter");

        Scanner input = new Scanner(System.in);
        int n = input.nextInt();

        for(int i=1; i<=n; i++){
```

```
                System.out.println(i);
            }

        }
}
```



****

4. Printing pattern given ‘n’ as input :

```
import java.util.Scanner;

class patter
{
    public static void main(String[] args) {
            System.out.println("Enter");
            Scanner input = new Scanner(System.in);
            int n = input.nextInt();
            int a=1;
            System.out.println();
            for(int i=1;i<=n;i++){

               for(int j=0;j<i;j++){
```

```
                    System.out.print(a);
                    a++;
                }

                System.out.println();
            }
        }
}
```

```
Enter
5

1
23
456
78910
1112131415
```

****

5.Grade scored by student:

```
import java.util.Scanner;
class grade
{
        public static void main(String[] args) {

        System.out.println("Enter your CIE marks (0-50):\n");
        Scanner input=new Scanner(System.in);
        float a= input.nextFloat();

        while(a>50||a<0){
```

```
   System.out.println("Please Enter the valid CIE marks (0-50):\n");
   a=input.nextFloat();
}

System.out.println("Enter your SEE marks(0-100) :\n");
float b= input.nextFloat();

while(b>100||b<0){
   System.out.println("Please Enter the valid SEE marks (0-100):\n");
   b=input.nextFloat();
}

float res = (a+b/2);

if(res<=100&&res>90){
   System.out.println("Student has secured 'S'grade\n");
}
else if(res<=90&&res>80){
   System.out.println("Student has secured 'A'grade\n");
}
else if(res<=80&&res>70){
   System.out.println("Student has secured 'B'grade\n");
}
else if(res<=70&&res>60){
   System.out.println("Student has secured 'C'grade\n");
}
else if(res<=60&&res>50){
   System.out.println("Student has secured 'D'grade\n");
}
else if(res<=50&&res>40){
   System.out.println("Student has secured 'E'grade\n");
```

```
        }
        else if(res<=40&&res>=0){
           System.out.println("Student has secured 'F'grade\n");
        }

        }
}
```

```
Enter your CIE marks (0-50):

45
Enter your SEE marks(0-100) :

93
Student has secured 'S'grade
```

****

6.Get the prime nos in between two given nos:

```
import java.util.Scanner;
class prime
{
        public static void main(String[] args) {

         int n,m,i,j,prime;
         System.out.println("Enter two nos");
         Scanner input = new Scanner(System.in);

         m=input.nextInt();
         n=input.nextInt();

         for(i=2;i<=n;i++){
```

```
            prime=1;

            for(j=2;j<=i/2;j++){
               if(i%j==0){
                  prime=0;
                  break;
               }
            }
            if(prime==1&& i>=m){
               System.out.println(i);
            }
         }
        }
}
```

```
Enter two nos
15
30
prime nos in between are:
17
19
23
29
```

****

7. students selecting courses out of three:

```
#include <stdio.h>
#include <stdlib.h>

struct student {
   char name[25];
   int option;
};
```

```
int n=0,i=0,j,t=0;
char ch='c';
int a=0,b=0,c=0;


struct student s[100];


int main()
{
   printf("ENTER THE STUDENT DETAILS AND ELECTIVES FOR THE COURSES BELOW\n\n");

    while(ch=='c'){

        printf("Enter the name:\n");
        scanf("%s",s[t].name);
        printf("Enter the corresponding option\n1.JEE\n2.NEET\n3.ADVANCE\n");
        scanf("%d",&s[t].option);
        t++;
        printf("Enter 'c' to continue or press any key to leave\n");
        scanf("%s",&ch);
   }

   /***********************/

   printf("************************************************\n");
   printf("the students elected for the diff choices are listed below\n\n\n");
```

```
   printf("The students registered for 1.JEE are\n\n");

   for(j=0;j<t;j++){
      if(s[j].option==1){
         printf("%s\n",s[j].name);
      }

   }

   printf("The students registered for 2.NEET are\n\n");

     for(j=0;j<t;j++){
      if(s[j].option==2){
         printf("%s\n",s[j].name);
      }

   }

   printf("The students registered for 3.ADVANCE are\n\n");

     for(j=0;j<t;j++){
      if(s[j].option==3){
         printf("%s\n",s[j].name);
      }

   }

/*******COUNTING*******/
for(j=0;j<t;j++){
   if(s[j].option==1){
      a++;
```

```
    }
    else if(s[j].option==2){
        b++;
    }
    else if(s[j].option==3){
        c++;
    }
}



/*******EACH ELECTIVE*****/

printf("the total no of students in each Elective are:\n\n");
printf("1.JEE %d\n",a);
printf("2.NEET %d\n",b);
printf("3.ADVANCE %d\n",c);



/*****ALL ARE ABOVE 30 ******/
if(a>=30&&b>=30&&c>=30){

    printf("*****************************************************\n\n");

    printf("The students registered for 1.JEE are\n");

    for(j=0;j<t;j++){
        if(s[j].option==1){
            printf("%s\n",s[j].name);
        }
```

```
    }
    printf("The students registered for 2.NEET are\n");

      for(j=0;j<t;j++){
       if(s[j].option==2){
          printf("%s\n",s[j].name);
       }

    }

    printf("The students registered for 3.ADVANCE are\n");

      for(j=0;j<t;j++){
       if(s[j].option==3){
          printf("%s\n",s[j].name);
       }

    }
  }
  /*******************/


  if(a>=30&&b>=30&&c<30){
    printf("*****************************************\n\n");

    printf("The students elected for the course 3.ADVANCE will not be floated due participants less than 30 so kindly please register ureself to the any of the other two courses\n");

   for(i=0;i<c;i++){
      printf("%s select any of the courses below\n1.JEE\n2.NEET\n",s[i].name);
```

```
    scanf("%d",&s[i].option);
  }

  int a1=0,b1=0;
  for(i=0;i<t;i++){

    if(s[i].option==1){

       a1++;
    }
    else if(s[i].option==2){
       b1++;
    }
  }

printf("the total no of students in each Elective are:\n");
printf("1.JEE %d\n",a1);
printf("2.NEET %d\n",b1);

printf("Name of the students in each Elective are as follows:\n\n");
printf("students elected JEE are :\n");
for(i=0;i<a1;i++){
   printf("%s\n",s[i].name);
}

printf("students elected NEET are :\n");
for(i=0;i<b1;i++){
   printf("%s\n",s[i].name);
}
```

```
}
/****************/

 if(a>=30&&b<30&&c>=30){
    printf("*****************************************\n\n");

     printf("The students elected for the course 2.NEET will not be floated due participants less than 30 so kindly please register ureself to the any of the other two courses\n\n");

  for(i=0;i<b;i++){
     printf("%s select any of the courses below\n1.JEE\n3.ADVANCE\n",s[i].name);
     scanf("%d",&s[i].option);
  }



  int a2=0,c2=0;
  for(i=0;i<t;i++){

     if(s[i].option==1){

        a2++;
     }
     else if(s[i].option==3){
        c2++;
     }
  }

printf("the total no of students in each Elective are:\n\n");
printf("1.JEE %d\n",a2);
printf("2.ADVANCE %d\n",c2);
```

```
   printf("Name of the students in each Elective are as follows:\n\n");
   printf("students elected JEE are :\n\n");
   for(i=0;i<a2;i++){
      printf("%s\n",s[i].name);
   }

   printf("students elected ADVANCE are :\n\n");
   for(i=0;i<c2;i++){
      printf("%s\n",s[i].name);
   }

}

   /*****************/


    if(a<30&&b>=30&&c>=30){
       printf("*****************************************\n\n");

      printf("The students elected for the course 1.JEE will not be floated due participants less than 30 so kindly please register ureself to the any of the other two courses\n\n");

     for(i=0;i<a;i++){
        printf("%s select any of the courses below\n2.NEET\n3.ADVANCE\n",s[i].name);
        scanf("%d",&s[i].option);
     }

      int b3=0,c3=0;
     for(i=0;i<t;i++){
```

```
        if(s[i].option==2){

           b3++;
        }
        else if(s[i].option==3){
           c3++;
        }
     }

   printf("the total no of students in each Elective are:\n\n");
   printf("1.NEET %d\n",b3);
   printf("2.ADVANCE %d\n",c3);

   printf("Name of the students in each Elective are as follows:\n\n");
   printf("students elected NEET are :\n");
   for(i=0;i<b3;i++){
      printf("%s\n",s[i].name);
   }

   printf("students elected ADVANCE are :\n\n");
   for(i=0;i<c3;i++){
      printf("%s\n",s[i].name);
   }

}


}
```

NOTE: The out put of 30 students was too long so I have made an output of only 10 students , But the program logic is designed for 30 students only .

```
ENTER THE STUDENT DETAILS AND ELECTIVES FOR THE COURSES BELOW

Enter the name:
sid
Enter the corresponding option
1.JEE
2.NEET
3.ADVANCE
1
Enter 'c' to continue or press any key to leave
c
Enter the name:
rocky
Enter the corresponding option
1.JEE
2.NEET
3.ADVANCE
1
Enter 'c' to continue or press any key to leave
c
Enter the name:
rockybhai
Enter the corresponding option
1.JEE
2.NEET
3.ADVANCE
1
Enter 'c' to continue or press any key to leave
c
Enter the name:
siddubhai
Enter the corresponding option
1.JEE
2.NEET
3.ADVANCE
1
Enter 'c' to continue or press any key to leave
c
Enter the name:
dhoni
Enter the corresponding option
1.JEE
2.NEET
3.ADVANCE
3
Enter 'c' to continue or press any key to leave
c
Enter the name:
msd
Enter the corresponding option
1.JEE
2.NEET
3.ADVANCE
3
Enter 'c' to continue or press any key to leave
```

```
Enter 'c' to continue or press any key to leave
c
Enter the name:
captain
Enter the corresponding option
1.JEE
2.NEET
3.ADVANCE
3
Enter 'c' to continue or press any key to leave
c
Enter the name:
steve
Enter the corresponding option
1.JEE
2.NEET
3.ADVANCE
3
Enter 'c' to continue or press any key to leave
c
Enter the name:
rogers
Enter the corresponding option
1.JEE
2.NEET
3.ADVANCE
3
Enter 'c' to continue or press any key to leave
c
Enter the name:
tony
Enter the corresponding option
1.JEE
2.NEET
3.ADVANCE
2
Enter 'c' to continue or press any key to leave
stark
```

```
the students elected for the diff choices are listed below


The students registered for 1.JEE are

sid
rocky
rockybhai
siddubhai
The students registered for 2.NEET are

tony
The students registered for 3.ADVANCE are

dhoni
msd
captain
steve
rogers
the total no of students in each Elective are:

1.JEE 4
2.NEET 1
3.ADVANCE 5
****************************************

The students elected for the course 2.NEET will not be floated due participants less than 30 so kindly please register ureself to the any of the other two courses

select any of the courses below
1.JEE
3.ADVANCE
1
the total no of students in each Elective are:

1.JEE 4
2.ADVANCE 5
Name of the students in each Elective are as follows:

students elected JEE are :

sid
rocky
rockybhai
siddubhai
students elected ADVANCE are :

sid
rocky
rockybhai
siddubhai
dhoni
```

****