1. Write a program to accepts two numbers from stdin and find all the odd as well as even numbers present in between them.

**import** java.util.Scanner;

**public** **class** Main {

**private** **static** Scanner *sc*;

**public** **static** **void** main(String[] args) {

// **TODO** Auto-generated method stub

*sc* = **new** Scanner(System.***in***);

**int** arr1[]=**new** **int**[100];

**int** arr2[]=**new** **int**[100];

**int** start=*sc*.nextInt();//starting index 2

**int** end=*sc*.nextInt();//ending index 10

**int** val1=0;

**int** val2=0;

**for**(**int** i=start;i<=end;i++){

**if**(i%2==0)

{

//arr1[0]=2

//arr1[1]=4

//arr1[2]=6

//arr1[3]=8

//arr1[4]=10

arr1[val1++]=i;

}

**else**

{

//arr1[0]=3

//arr1[1]=5

//arr1[2]=7

//arr1[3]=9

arr2[val2++]=i;

}

}

//val1=4

//val2=5

System.***out***.println("even numbers are:");

**for**(**int** j=0;j<val1;j++){

System.***out***.println(arr1[j]);//2 4 6 8 10

}

System.***out***.println("odd numbers are:");

**for**(**int** k=0;k<val2;k++){

System.***out***.println(arr2[k]);//3 5 7 9

}

}

}

2.Joe is scared to go to school. When her dad asked the reason, Joe said she is unable to complete the task given by her teacher. The task was to find the “first 10 multiples” of the number entered from stdin.

**import** java.util.Scanner;

**public** **class** Main {

**public** **static** **void** main(String[] args) {

// **TODO** Auto-generated method stub

Scanner sc=**new** Scanner(System.***in***);

System.***out***.print("Input: ");

**int** val=sc.nextInt();//3

**for**(**int** i=1;i<=10;i++)

{

System.***out***.println(val+" \* "+i+" = "+(val\*i));

//3 \* 1 = 3

//3 \* 2 = 6

//3 \* 3 = 9

//3 \* 4 = 12

//3 \* 5 = 15

//3 \* 6 = 18

//3 \* 7 = 21

//3 \* 8 = 24

//3 \* 9 = 27

//3 \* 10 = 30

}

}

}

3. Write a program consisting method sum() and demonstrate the concept of method overloading using this method.

**public** **class** Main {

**public** **static** **void** main(String[] args) {

test t=**new** test();

t.sum(2,3);//calling sum(int a,int b)

t.sum(2,3,4);//calling sum(int x,int y,int z)

}

}

**class** test{

**void** sum(**int** a,**int** b){

**int** sum=a+b;//sum=2+3

//sum=5

System.***out***.println(sum);

}

**void** sum(**int** x,**int** y,**int** z){

**int** sum=x+y+z;//sum=2+3+4

//sum=9

System.***out***.println(sum);

}

}