Practical:1[A]

Aim: Write a Simple Java Program that would print the words "HelloWorld".

Code:

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

Output:

```
C:\Users\user.T8-39\Desktop\mahek22-java>java First
Hello world
C:\Users\user.T8-39\Desktop\mahek22-java>
```

Practical:1[B]

Aim: Write a program in Java to generate first n prime numbers.

Code:

```
import java.util.Scanner;
class Isprime
 public static void main(String[] args)
   int i,j,count,n;
   Scanner sc=new Scanner(System.in);
   System.out.print("enter the number");
   n=sc.nextInt();
   for(i=1;i<=n;i++)
     count=0;
     for(j=1;j<=i;j++)
     {
       if(i%j==0)
        count++;
     }
   if(count==2)
   System.out.println(i);
```

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Output:

```
C:\Users\user.T8-39\Desktop\javac isprime.java
C:\Users\user.T8-39\Desktop\javac isprime
enter the number10
2
3
5
7
C:\Users\user.T8-39\Desktop\java Isprime
enter the number20
2
3
5
7
C:\Users\user.T8-39\Desktop\java Isprime
enter the number20
2
3
5
7
C:\Users\user.T8-39\Desktop\java Isprime
enter the number20
2
3
5
7
11
13
17
19
C:\Users\user.T8-39\Desktop\
```

Practical:1[C]

Aim: Write a program in Java to find maximum of three numbers using conditional operator.

Code:

```
import java.util.Scanner;
class MaximumNumber
{
    public static void main(String[] args)
    {
        int a, b, c, d;
        Scanner s = new Scanner(System.in);
        System.out.println("Enter all three numbers:");
        a = s.nextInt();
        b = s.nextInt();
        c = s.nextInt();
        c = s.nextInt();
        System.out.println("Maximum Number:"+d);
        System.out.println("Maximum Number:"+d);
    }
}
```

Output:

```
C:\Users\user.T8-39\Desktop\java Isprime
enter the number20

2
3
5
7
11
13
17
19
C:\Users\user.T8-39\Desktop\javac maximum.java
C:\Users\user.T8-39\Desktop\java MaximumNumber
Enter all three numbers:
13
24
90
Maximum Number:90
C:\Users\user.T8-39\Desktop\
```

Practical:1[D]

Aim: Write a program in Java to reverse the digits of a number using while loop Code:

```
import java.util.Scanner;
class Rev{
  public static void main(String []args)
  {
    int num,reversed=0;
    Scanner sc=new Scanner(System.in);
    System.out.println("enter the number");
    num=sc.nextInt();
    while(num !=0)
    {
      int digit=num%10;
      reversed=reversed*10 + digit;
      num/=10;
    }
    System.out.println("rev number:"+ reversed);
    }
}
```

Output:

```
C:\Users\user.T8-39\Desktop\mahek22-java>java Reventer the number 12345
rev number:54321
C:\Users\user.T8-39\Desktop\mahek22-java>
```

Practical:2[A]

Aim: Write a Java Program that will display Factorial of the given number.

Code:

```
import java.util.Scanner;
class Fac
{
    public static void main(String[] args)
    {
        int i,number,fact=1;
        Scanner sc=new Scanner(System.in);
        System.out.println("enter the number");
        number=sc.nextInt();

    for(i=1;i<number;i++)
    {
            fact=fact*i;
        }
        System.out.println("Factorial number is"+fact);
    }
}</pre>
```

Output:

```
C:\Users\user.T8-39\Desktop\mahek22-java\java Facenter the number 5
Factorial number is24
C:\Users\user.T8-39\Desktop\mahek22-java\
```

Practical:2[B]

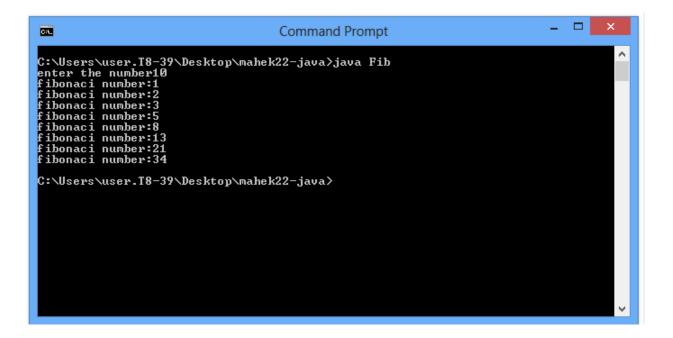
Aim: Write a Program which Generate Fibonacci Series.

Code:

Output:

```
import java.util.Scanner;
class Fib
{
   public static void main(String[] args)
   {
     int n1=0,n2=1,n3,i,count;
     Scanner sc=new Scanner(System.in);
     System.out.print("enter the number");
     count=sc.nextInt();
     for(i=2;i<count;++i)
     {
        n3=n2+n1;
        System.out.println("fibonaci number:"+n3);
        n1=n2;
        n2=n3;
     }
   }
}</pre>
```

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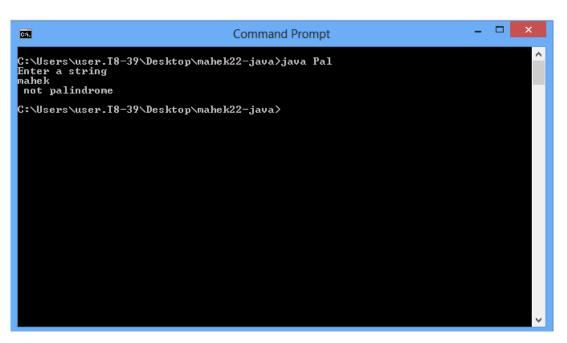
Practical:2[C]

Aim: Write a program to check given number is palindrome or not.

Code:

```
import java.util.Scanner;
class Pal
{
  public static void main(String args[])
  {
    String original, reverse = "";
    Scanner in = new Scanner(System.in);
    System.out.println("Enter a string");
    original = in.nextInt();
    int length = original.length();
    for ( int i = length - 1; i >= 0; i-- )
        reverse = reverse + original.charAt(i);
    if (original.equals(reverse))
        System.out.println("palindrome");
    else
        System.out.println(" not palindrome");
    }
}
```

Output:



Practical:2[D]

Aim: Write a Java Program to sort 5 number using array.

Code:

```
import java.util.Scanner;
class sort
  public static void main(String[] args)
        int count, temp;
    Scanner sc = new Scanner(System.in);
    System.out.print("Enter number of elements: ");
    count = sc.nextInt();
    int num[] = new int[count];
    System.out.println("Enter array elements:");
    for (int i = 0; i < count; i++)
       num[i] = sc.nextInt();
    }
    sc.close();
    for (int i = 0; i < count; i++)
      for (int j = i + 1; j < count; j++) {
         if (num[i] > num[j])
           temp = num[i];
           num[i] = num[j];
           num[j] = temp;
         }
      }
    System.out.print("Array Elements in Ascending Order: ");
    for (int i = 0; i < count - 1; i++)
      System.out.print(num[i] + " ");
    System.out.print(num[count - 1]);
  }
```

Output:

```
Microsoft Windows [Version 6.2.9200]
(c) 2012 Microsoft Corporation. All rights reserved.

C:\Users\user.T8-39\cd desktop

C:\Users\user.T8-39\Desktop\mahek22-java

C:\Users\user.T8-39\Desktop\mahek22-java\java sort
Enter number of elements: 5
Enter array elements:
9
8
7
6
5
Array Elements in Ascending Order: 5 6 7 8 9
C:\Users\user.T8-39\Desktop\mahek22-java\
```

Practical:3[A]

Aim:write a program in java to ultiply two matrix Code:

```
public class TwoMatrix{
public static void main(String args[]){
int a[][]={{1,1,1},{2,2,2},{3,3,3}};
int b[][]={{1,1,1},{2,2,2},{3,3,3}};
int c[][]=new int[3][3]; //3 rows and 3 columns
for(int i=0; i<3; i++){
for(int j=0; j<3; j++){
c[i][j]=0;
for(int k=0;k<3;k++)
c[i][j]+=a[i][k]*b[k][j];
}//end of k loop
System.out.print(c[i][j]+" ");
}//end of j loop
System.out.println();//new line
}
}}
```

Output:

```
Command Prompt

Microsoft Windows [Version 6.2.9200]
(c) 2012 Microsoft Corporation. All rights reserved.

C:\Users\user.T8-39\cd desktop

C:\Users\user.T8-39\Desktop\cd mahek22-java

C:\Users\user.T8-39\Desktop\mahek22-java\javac TwoMatrix.java

C:\Users\user.T8-39\Desktop\mahek22-java\java TwoMatrix
6 6 6
12 12 12
18 18 18

C:\Users\user.T8-39\Desktop\mahek22-java\
```

Practical:3[B]

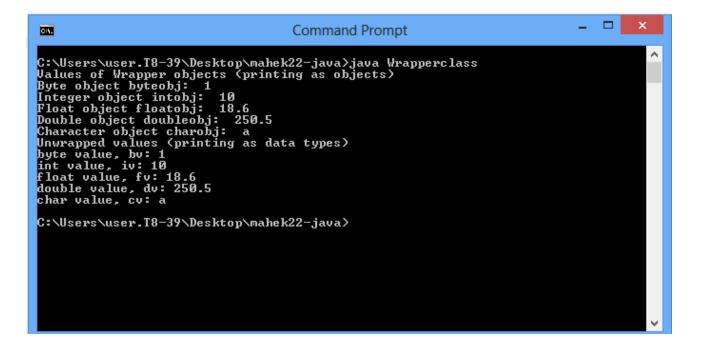
Aim: Write programs in Java to use Wrapper class of each primitive data type

```
Code:
```

```
class Wrapperclass
  public static void main(String args[])
    byte a = 1;
    Byte byteobj = new Byte(a);
    int b = 10;
    Integer intobj = new Integer(b);
    float c = 18.6f;
    Float floatobj = new Float(c);
    double d = 250.5;
    Double doubleobj = new Double(d);
    char e='a';
    Character charobj=e;
    System.out.println("Values of Wrapper objects (printing as objects)");
    System.out.println("Byte object byteobj: " + byteobj);
    System.out.println("Integer object intobj: " + intobj);
    System.out.println("Float object floatobj: " + floatobj);
    System.out.println("Double object doubleobj: " + doubleobj);
    System.out.println("Character object charobj: " + charobj);
    byte by = byteobj;
    int iv = intobj;
    float fv = floatobj;
    double dv = doubleobj;
    char cv = charobj;
    System.out.println("Unwrapped values (printing as data types)");
    System.out.println("byte value, bv: " + bv);
    System.out.println("int value, iv: " + iv);
    System.out.println("float value, fv: " + fv);
    System.out.println("double value, dv: " + dv);
    System.out.println("char value, cv: " + cv);
}
```

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Output:



Practical:4[A]

Aim: Write a program to read five integer numbers from command line and display their sum and average.

Code:

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

{
  int i,n=0,s=0;
      double avg;
      {
       System.out.println("Input the 5 numbers : ");
      }
      for (i=0;i<5;i++)
      {
            Scanner in = new Scanner(System.in);
            n = in.nextInt();
            s +=n;
      }
      avg=s/5;
      System.out.println("The sum of 5 no is : "+s+"\nThe Average is : "+avg);
}}</pre>
```

Output:

```
C:\Users\user.T8-39\Desktop\mahek22-java>javac Sumandavg.java
C:\Users\user.T8-39\Desktop\mahek22-java>java Sumandavg
Input the 5 numbers :

6
6
7
8
9
The sum of 5 no is : 35
The Average is : 7.0

C:\Users\user.T8-39\Desktop\mahek22-java>
```

Practical:4[B]

Aim: Write a program to read two strings from command line argument and check the equality of two strings.

Code:

```
public class Str {

public static void main(String[] args) {
   String style = new String("Bold");
   String style2 = new String("Bold");

if(style.equals(style2))
   System.out.println("Equal");
   else
    System.out.println("Not Equal");
}
```

Output:

```
C:\Users\user.T8-39\Desktop\mahek22-java>java Str
Equal
C:\Users\user.T8-39\Desktop\mahek22-java>
```