EXPERIMENT-1

AIM OF THE EXPERIMENT
wap in java to print the sum of two number

```
class sum
{
int a,b;
A=10;b=30;
int sum =a+b
System.out.println("sum of "+a+"&"+b+"is"+sum);
}
}
```

```
OUTPUT-
sum of 10&30 is 40
```

EXPERIMENT- 2

AIM OF THE EXPERIMENT -

Wap in Java to print "Hello" on screen and then print your name on a separate line.

```
Class Abc
{
public static void main (String args[])
  {
System.out.println("Hello");
System.out.println("Ayushmita Jena");
  }
}
```

```
OUTPUT –
   Hello

Ayushmita Jena
```

EXPERIMENT- 3

AIM OF THE EXPERIMENT -

Write a program that take a number as input and print its multiplication table uoto 10.

```
Import java.util.*;

class Table

{

public static void main (String args[])

{

Scanner sc=new Scanner (System.in)

Intn,I;

System.out,println("Enter a no:");

n=sc.nrxtInt();

for (i=1; i=10; i++)

System.out,println(n+ "*" + I + "=" + n*I );

}

}
```

OUTPUT:

Enter a no:10

10*1=10

10*2=20

10*3=30

10*4=40

10*5=50

10*6=60

10*7=70

10*8=80

10*9=90

10*10=100

EXPERIMENT- 4

AIM OF THE EXPERIMENT -

Write a program to print the area & perimeter of a circle.

```java
import  java.util.Scanner;

class circle
   {
Public static void main(String args[ ])
    {
 Scanner sc=new Scanner ();
 System.out.println("Enter the  value for radius");
 int r = sc.nextInt();
 doublearea,per;
 area=3.14*r*r;
  per=2* 3.14*r;
 System.out.println("Perimeter ="+per+"Area="+area);
 }
 }
```

OUTPUT:-

Enter the value for radius

3

Perimeter= 18.84 A

EXPERIMENT- 5

AIM OF THE EXPERIMENT -

Write a program to convert decimal number to binary number.

```java
Import java.util.* ;

Class Dectobinary
 {
 Public static void main(String args[])
```

```
{

int n,ans=0,power=1,rem,temp;

Scanner sc=new Scanner(System.in);

System.out.println("Enter decimal no:"):

N=sc.nextInt():temp=n;

While(n>0)

{

Rem=n%2;

Ans+=rem*power;

Power*=10;

n=n/2;

}

Systerm.out.println("The binary of"+temp+"is"+ans);

}

}
```

OUTPUT:-

Enter decimal no:12

The binary of 12 is 1100

EXPERIMENT- 6

AIM OF THE EXPERIMENT -

Write a program to compare 2 numbers.

```
Import java.util.Scanner;

Class Compare

{

Public static void main(String[ ] args)

{

Inta,b;

Scanner sc=new Scanner();

System.out.println("Enter 1st no.");
```

```
a=sc.nextInt();

System.out.println("Enter 2nd no.");

b=sc.nextInt();

if(a>b)

System.out.println(a+ "is greater than"+b);

else

System.out.println(b+"is greater than"+a);

}}
```

O/p:-

Enter 1st no.

10

Enter 2nd no.

20

20 is greater than 10

EXPERIMENT- 7

AIM OF THE EXPERIMENT -

Write a java program to compute the sum of the digits of an integer.

```
importjava.util.Scanner;

class Sum

{

public static void main(String [] args)

  {

intn,r,sum=0,t;

    Scanner sc=new Scanner(System.in);

System.out.println("Enter the number");

    n=sc.nextInt();

    t=n;

while(n!=0)

    {
```

```
        r=n%10;

sum+=r;

        n=n/10;

    }

System.out.println("Sum of digits of "+t+"is"+sum);

  }

}



O/P:-

Enter the number

3142

Sum of digits of 3142 is 10
```

EXPERIMENT- 8

AIM OF THE EXPERIMENT -

Write a program to count the letter, space, number &othe characters of an input string.

```
importjava.util.Scanner;

classStrlen

{

public static void main(String [] args)

  {

    Scanner sc=new Scanner(System.in);

System.out.println("Enter string");

    String s=sc.nextLine();

int n=s.length();

System.out.println(n);

  }

}
O/P
Enter string: chocoshake @3435
16
```

EXPERIMENT- 9

AIM OF THE EXPERIMENT -

Write a program to reverse a string.

```
class Reverse

{

public static void main(String [] args)

  {

StringBuilderstr=new StringBuilder("Abhishek");

str.reverse();

System.out.println(str);

  }

}
```

O/P:-

kehsihbA

EXPERIMENT- 10

AIM OF THE EXPERIMENT -

Write a program in java to accept a number & check the number is even or not print 1 if the number is even or 0 if the number is add.

```
Import java.util.*;

public class Num check

{

        Public static void main(String args[])

        {

                Scanner sc=new Scanner();

                System.out.println("Enter a number");

                Int n=sc.nextInt();

                If(n%2==0)
```

```
                    System.out.println("1");

                    else

                    System.out.println("0");

        }

        }
```

O/P:-

Enter a number

14

1

EXPERIMENT- 11

AIM OF THE EXPERIMENT -

Write a program to accept 2 integer value from the user & return the larger value. However if the 2 value are the same return the smaller value if the 2 values have the same reminder when devided by 6.

```
Import java.util.*;

Public class Ex12          `

{

Public static void main(String args [])

{

Scanner sc=new Scanner (System.in)

System.out.println("Enter 1st no. :")

Int a=sc.nextInt();

System.out.println("Enter 2nd no. :")

Intb=sc.nextInt();

System.out.println("Result :" +result (a,b));

}

Public staticint result (intx ,int y)

{

If (x==y)

Retun 0;
```

If (x%6==y%6)

Return(x<y)?X:y;

Return(x>y)?X:y;

o/p :-

Enter 1st no. : 6

Enter 2nd no. :12

6

EXPERIMENT- 12

AIM OF THE EXPERIMENT -

Write a program to get larger value between first,last element of an array(length 3) of integers.

```
importjava.util.*;

Public static void main(String args[])

{

int I;

int a[]=new int[3];

System.out.println("Enter elements");

Scanner se=new Scanner(System.in);

for(i=0 ; i<3;  i++)

a[i]=sc.nextInt();

System.out.println("Array is:");

for(i=0; i<3; i++)

System.out.println(a[i]);

int max=a [10];

if (a[2]>=max)

max=a[2];

System.out.println("Larger value between first & last element" + max);

}

}
```

O/P:-
Enter element:
3 2 9
Arrya is:
3 2 9
Larger value between first & last element is 9.

EXPERIMENT- 13

AIM OF THE EXPERIMENT -

Design a class to represent a bank account includingmembers:-

- ➢ Name of depositor
- ➢ Account number
- ➢ Type of account
- ➢ Balance amount in the account

Methods –

- ➢ To assign initial values
- ➢ To deposit an amount
- ➢ To withdraw an amount
- ➢ To display the name and balance

```
Import java.util.*;
Class bank
{
String name,type ;
Int acc.no.;
Double balance;
Void input()
{
Scanner sc=new scanner(system.in);
System.out.println("enter name ");
Name=sc.nextline();
System.out.println("enter type:");
Type=sc.nextline();
System.out.println("enter account no.");
Acc.no.=sc.nextint();
System.out.println("enter balance:");
Balance= sc.nextdouble();
}
Void deposite()
{
Scanner sc =new scanner(system.in);
System.out.println("amount to be deposited:");
Double amount=sc.nextdouble();
Balance+=amount;
System.out.println("total balance=" +balance);
```

```
}
Void withdrawl()
{
Scanner sc=new scanner ( system.in);
System.out.println("amount to be credited:");
Double amount=sc.nextdouble();
Balance-=amount;
System.out.println("total balance="+balance);
}
Void display()
}
System.out.println("name="+name);
System.out.println("balance=" +balance);
}
Public static void main (string args[]);
{
Bank a= new bank();
a.input();
a.deposite();
a.withdrawl();
a.display();
}
}
```

O/P-Enter your name: Abhisek
     Enter type :major
     Enter account no-: 36094570293
     Enter balance: 40000
     Amount to be deposited:20000
     Total balance: 60000
     Amount to be credited: 10000
     Total balance: 50000
Name :Abhisek
Blance: 50000

EXPERIMENT- 14

AIM OF THE EXPERIMENT

Given are two one-decimal arrays,A & B which are sorted in assending order.Wap to merge them into a single sorted array c that contains every item from arrays A & B in assending order.

Class merge Array{

Public static int [] mergearray (int[] a,int [] b){

Int [] c=new int[a.length+b.length];

```
Int i=0,j=0,k=0;

While(i<a.length && j<b.length)

{

If(a[i] <b[j])

{

C[k] = a[i];

I++;

K++;

}

Else{

C[k] = b[j];

J++;

K++;

}

}

While(i<a.length){

C[k] = a[i];

I++;

K++;

}

While(j<b.length){

C[k]= b[j];

J++;

K++;

}

retuen c;

}

Publc static void main(string[]args){

Int[]a=new int[]{-7,12,17,29,41,56,79};
```

```
Int[]b=new int[] {-9,-3,0,5,19}

Int[]c=mergearray(a,b);

System.out.println("Array A:"+Arrays.tostring(a));

System.out.println("Array B:"+Array.to string (b));

System.out.println("Merged Array:"+Array.to.string(c));

}

}
```

o/p:-

Array A:[-7,12,17,29,41,56,79]

Array B [-9,-3,0,5,19]

Merged Array[-9,-7,-3,0,5,12,17,19,29,41,56,79]

EXPERIMENT- 15

AIM OF THE EXPERIMENT

Write a program in java implementing multiple inheritance .

```
 Interface Backend

{

Public void connectserver( );

}

Class Frontend

{

Public void responsive(string str)

{

System.out.println(str +"can also be used as frontend")

} }

Class language extends frontend implement Backend

{

 String language ="java"

Public void connect server( )

{
```

```
System.out.println("language + " can be used as backend language");

Public static void main (string args[ ])

{

Language java = new language( );

Java connectserver( );

Java.responsive(java.language);

}
```

EXPERIMENT- 16

AIM OF THE EXPERIMENT

Write a program in java implementing package.

```
package pack ;

public class A

{

public void msg ()

{

system.out.println("Hello");

}

packagemypack;

import pack.*;

class B

{

public static void main(string args[])

{

A obj = new A();

obj.msg();

}

}
```

EXPERIMENT- 17

AIM OF THE EXPERIMENT

Write a program in java to read a file line by line and print the line output on the screen.

```
Import java.in.*;

Public class Read

{

Public static void main (String args[ ] )

{

Try

{
file file= new File("Demo.txt");

File reader fr=new File reader(File);

Bufferedreaderbr=new Bufferedreader(fr);

String Buffer b=new String Buffer()

String line;

While(line=br.readline()):=null)

{

Sb. append(line);

Sb. append("\n");

fr. close();

System.out.println("Content of file");

System.out.println("sb. toString());

}
```

EXPERIMENT- 17

AIM OF THE EXPERIMENT

Write a program in java to read content from one file and write in on another file.

```
Import java.io.*;

class File1

public static void main (string args[])
```

```
{

File inf = new file("in.data);

File outf = ne file("out.data");

File reader ins = null;

File writer outs = null;

try{

ins = new file reader(inf)

outs = new file reader(outf);

intch;

while(ch=ins.read())! = -1

{

outs.write(ch);

}}

Catch(10 Exception e){

System.out.println(c);

System.exit(-1);

}

finaly{

try{

ins.close();

outs.close();

}
```

EXPERIMENT- 18

AIM OF THE EXPERIMENT

Define an exception called "No match Exception" that is thrown when a string is not equal to "India" WAP that uses this exception.

```
Class No match exception {

String & ;

No match exception(string &){
```

```
This.& = &;

If(s.equals("India")){

System.out.println("Matched");

}

else {

throus new No Match exception ("Not matched");

} } }

Class Nomatchx {

Public static void main(string[ ]args){

No match exception V=new No match exception ("America");

} }
```