ASSIGNMENT-4

CHANDRA LEKHA

1.write a program to print number 1 to 10

```
package edubridge;

public class num {

public static void main(String[] args) {

// TODO Auto-generated method stub

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

{

System.out.println(i);

}

}

}
```

2.write a program to calculate the sum of first 10 natural number

```
package edubridge;

public class num {

public static void main(String[] args) {

// TODO Auto-generated method stub

System.out.println("first 10 natural number are:");

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

{

System.out.println(i);

}

}

}
```

3.write a program that prompts the user to inputs a positive integer .it should then print the multiplication table of that number.

```
package edubridge;
```

```
import java.util.Scanner;

public class Multiplication{

public static void main(String[] args) {

// TODO Auto-generated method stub

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

Scanner s=new Scanner(System.in);

int n=s.nextInt();

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

{

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

}

}

}
```

4.write a program to find the factorial value of any number entered through the keyboard.

```
package edubridge;

import java.util.Scanner;

public class factorial {

public static void main(String[] args) {

// TODO Auto-generated method stub

Scanner s=new Scanner(System.in);

int num;

int fact=1;

System.out.println("Enter any posistive integer: ");

num=s.nextInt();

for(int i=1;i<=num;i++)

{

fact*=i;
```

```
}

System.out.println("factorial:"+fact);

}

}
```

5.Two numbers are entered through the keyboard .write a program to find the value of one raised to the power of another .(Do not use java built in method)

```
package edubridge;

class sample{

public static void main(String[] args) {

// TODO Auto-generated method stub

System.out.println("mother information:");

System.out.println("Name:jyothi");

System.out.println("Age:40");

System.out.println("Salary:Housewife");

System.out.println("Phonenumber:1234567890");

System.out.println("Address:Hyderabad");

System.out.println("Father information:");

System.out.println("Name:Mohan");

System.out.println("Age:45");

System.out.println("Salary:3LPA");

System.out.println("Phonenumber:0987654321");

System.out.println("Address:Hyderabad");

}

}
```

6.write a program that prompt the user to input an integer and then output the number with the digits reversed.for example,if the input is 12345,the output should be 54321

```
package edubridge;

class Reverse {
```

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

int num = 12345, reversed = 0;

System.out.println("Original Number: " + num);

// run loop until num becomes 0

while(num != 0) {

// get last digit from num

int digit = num % 10;

reversed = reversed * 10 + digit;

// remove the last digit from num

num /= 10;

}

System.out.println("Reversed Number: " + reversed);

}

}
```

7.write a program that reads a set of integers, and then prints the sum of the even and odd integers.

```
package edubridge;

import java.util.Scanner;

public class evenodd {

public static void main(String[] args) {

// TODO Auto-generated method stub

Scanner console= new Scanner(System.in);

int number;

char choice;

int even = 0;

int odd = 0;

do

{
```

```
System.out.print("Enter any number ");

number = console.nextInt();

if( number % 2 == 0)

{

even += number;

}

else

{

odd += number;

}

System.out.print("Do you want to continue y/n? ");

choice = console.next().charAt(0);

}while(choice=='y' || choice == 'Y');

System.out.println("Sum of even numbers: "+even);

System.out.println("Sum of odd numbers: "+odd);

}

}
```

8.write a program that prompts that the user to input positive integer.it should then output a message indicating whether the number is a prime number

```
package edubridge;

import java.util.Scanner;

public class Primeno {

public static void main(String[] args) {

// TODO Auto-generated method stub

Scanner Scanner= new Scanner(System.in);

System.out.print("\fEnter positive integer:");

int num = Scanner.nextInt();

if(num<1)
```

```
System.out.print("Please enter number greater than 1");

else if (num % 2== 0)

System.out.print("its not a prime");

else

System.out.print("its a prime number");

}

}
```

9.write a program to calculate the HCF of two given numbers

```
package edubridge;

public class hcf {

public static void main(String[] args) {

// TODO Auto-generated method stub

int x = 50;

int y = 100;

int hcf = 1;

int temp;

if (x > y) {

temp = x;

x = y;

y = temp;

}

for(int i = 1; i < (x+1); i++) {

if (x%i == 0 && y%i == 0)

hcf = i;

}

System.out.println("HCF of "+ x +" and "+ y +" is: "+hcf);

}
```

```
}
```

10.write a do-while loop that asks the user to enter two numbers.The numbers should be added and the sum displayed .The loop should ask the user whether he or she wishes to perform the operation again.If so,the loop should repeat;otherwise it should terminate.

```
package edubridge;

import java.util.Scanner;

public class sum {

public static void main(String[] args) {

// TODO Auto-generated method

Scanner input = new Scanner(System.in);

int sum=0;

char op;

do{

System.out.println("enter two numbers: ");

int num1=input.nextInt();

int num2=input.nextInt();

sum=num1+num2;

System.out.println("Do you want to continue:y/N");

op=input.next().charAt(0);

}

while(op=='Y'||op=='y');

System.out.println("sum: "+sum);

}

}
```

11.write a program to enter the number till the user wants and at the end it should display the count of positive,negative and zeroes

```
package edubridge;

import java.util.Scanner;

public class Count {
```

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

// TODO Auto-generated method stub

int countP=0, countN=0, countZ=0, i;

int[] arr = new int[10];

Scanner scan = new Scanner(System.in);

System.out.print("Enter 10 Numbers: ");

for(i=0; i<10; i++)

arr[i] = scan.nextInt();

for(i=0; i<10; i++)

{

if(arr[i]<0)

countN++;

else if(arr[i]>0)

countP++;

else

countZ++;

}

System.out.println("\nTotal Positive Number: " +countP);

System.out.println("Total Negative Number: " +countN);

System.out.println("Total Zero: " +countZ);

}

}
```

12.write a program to enter the numbers till the user wants and at the end the program should display the largest and smallest numbers entered.

```
package edubridge;

import java.util.Scanner;

public class Largest {

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

```
// TODO Auto-generated method stub
Scanner console = new Scanner(System.in);
int number;
int max=0;
int min=0;
char choice;
do
{
System.out.println("Enter the number:");
number=console.nextInt();
if(number>max)
{
max=number;
}
if(number<min)
{
min=number;
}
System.out.println("do you want to continue y/n:");
choice=console.next().charAt(0);
}
while(choice=='Y'||choice=='y');
System.out.println("largest number: "+max);
System.out.println("Smallest number: "+min);
}
}
```