1: write program to test Hello World.

2:Write a program to adddition of two numbers .

```
import java.util.Scanner;
class ass1_2{
    Run|Debug
    public static void main(String[] args)[{
    int n1;
    int n2,sum;
    Scanner scn=new Scanner(System.in);
    System.out.println(x:"Enter number1:");
    n1=scn.nextInt();
    System.out.println(x:"Enter Number2:");
    n2=scn.nextInt();
    sum=n1+n2;
    System.out.println(":Sum is :"+sum);
}
```

3:Write a program to swap two numbers.

```
import java.util.Scanner;
class ass1_3{
    Run|Debug
public static void main(String[] args){
    int n1;
    int n2;
    Scanner scn=new Scanner(System.in);
    System.out.println(x:"Enter number1:");
    n1=scn.nextInt();
    System.out.println(x:"Enter Number2:");
    n2=scn.nextInt();
    System.out.println("Before swap n1="+n1+"and n2="+n2);
    n1=n1+n2;
    n2=n1-n2;
    n1=n1-n2;
    //System.out.println("The n1="+n1+"& n2="+n2+" after swap ");
    System.out.println("After swapping: n1 = " + n1 + " n2 = " + n2);
}
```

4. Write a program to accept an integer and check if it is even or odd.

5. Write a program to accept a number and check if it is divisible by 5 and 7.

6. Write a program, which accepts annual basic salary of an employee and calculates and displays the

Income tax as per the following rules.

```
Basic: < 1, 50,000 Tax = 0
1, 50,000 to 3,00,000 Tax = 20%
> 3,00,000 Tax = 30%
```

7. Accept a lowercase character from the user and check whether the character is a vowel or consonant.

(Hint: a, e, i, o, u are vowels)

```
import java.util.Scanner;
class ass1_7{
    Run|Debug

public static void main(String[] args){
    Scanner scn=new Scanner(System.in);
    System.out.println(x:"Enter charecter::");
    char alpha=scn.next().charAt(index:0);
    if(alpha=='a' || alpha=='e' || alpha=='i' || alpha=='o' || alpha=='u')
        System.out.println(x:"vowel");
    else
    System.out.println(x:"Consonant");
}
```

8. Write a C program to input angles of a triangle and check whether triangle is valid or not.

```
import java.util.Scanner;
class ass1_8{
    public static void main(String[] args){
       Scanner scn=new Scanner(System.in);
        float side1,side2,side3;
       System.out.println(x:"Enter side1 of triangle:");
        side1=scn.nextFloat();
       System.out.println(x:"Enter side2 of triangle:");
       side2=scn.nextFloat();
       System.out.println(x:"Enter side3 of triangle:");
       side3=scn.nextFloat();
       float add=side1+side2;
7
        if((side1+side2)>=side3 & (side2+side3)>=side1 & (side3+side1)>=side2)
       System.out.println(x:"Triangle");
         System.out.println(x:"Not a triangle");
```

9:Write a program to find factorial of a given number. ex:no5 fact=5*4*3*2*1=120

```
import java.util.Scanner;
class ass1_9{
    Run | Debug
    public static void main(String args[]){
        int i,fact=1;
        Scanner scn=new Scanner(System.in);
        int number;

        System.out.println(x:"Enter a number:");
        number=scn.nextInt();
        for(i=1;i<=number;i++){
            fact=fact*i;
        }
        System.out.println("Factorial of "+number+" is: "+fact);
    }
}</pre>
```

10:Write a program to find m to the power n. m=3 and n=4 so 3*3*3*3

11:Check if number is a prime number or not.:

12:Sum of series:

1+2+3+....+n

13:Check whether the number is palindrome or not?

```
class ass1_13{
   Run|Debug
   public static void main(String[] agrs){
        Scanner scn=new Scanner(System.in);
        int num;
        System.out.println(x:"Enter a number:");
        num=scn.nextInt();
        int temp=num;
        int rev=0;
        while(num>0){
            rev=rev*10+num%10;
            num=num/10;
        }
        System.out.println("temp:"+temp);
        if(temp==rev)
            System.out.println(x:"Palindrome");
        else
            System.out.println(x:"Not Palindrome");
```

14:Write a program to find sum of all even and odd numbers between 1 to n.

15: Write a program to enter a number and print its reverse.

```
//15: Write a program to enter a number and print its reverse.
import java.util.Scanner;
class ass1_15{
    Run|Debug
    public static void main(String[] args){
        Scanner sc=new Scanner(System.in);
        System.out.println(x:"Enter a number");
        int num=sc.nextInt();
        int temp=num;
        int rev=0;
        while(num>0){
            rev=rev*10+num%10;
                num=num/10;
        }
        System.out.println("Number before reverse:"+temp);
        System.out.println("Number after reverse:"+rev);
}
```

16:Write a program to print all Prime numbers between 1 to n.

17:Write a program to check entered number is Armstrong number or not.

```
public static void main(String[] args){
    Scanner sc=new Scanner(System.in);
    System.out.println(x:"Enter a number to check armstrong number:");
    int num=sc.nextInt();
    int temp=num;
    int sum=0;
    while(num>0){
        int digit=num%10;
        sum=(digit*digit*digit)+sum;
        num/=10;
    }
    if(sum==temp){
        System.out.println(x:"armstrong");
    }
    else
        System.out.println(x:"not");
```

```
import java.util.Scanner;
class ass1_17_1{
    Run | Debug
    public static void main(String[] args){
        Scanner scenew Scanner(System.in);
        System.out.println(x:"Enter limit");
        String no=sc.next();
        int len=no.length();
        System.out.println(len);
        int num=Integer.parseInt(no);
        int temp=num;
        int sum=0;
        while(num>0) {
        int digit=num%10;
        sum=(int)(Math.pow(digit,len))+sum;
        num/=10;
        }
        if(sum==temp)
        System.out.println(x:"armstrong");
        else
        System.out.println(x:"not armstrong");
    }
}
```

18:Write a program to find greatest of three numbers using nested if-else.

19:Create menu driven program for Pizza Shop. And display total amount,

```
import java.util.Scanner;
public class ass1 19 {
   public static void main(String[] args) {
       System.out.println("1:Paneer pizza 2:Peparoni pizza 3:Chilli
       int total = 0;
       int ch, qty;
           System.out.println("enter Choice");
           ch = sc.nextInt();
               System.out.println("Enter Qty for Paneer pizza");
               qty = sc.nextInt();
               System.out.println("Enter Qty for Peparoni pizza");
               qty = sc.nextInt();
                System.out.println("Enter Qty for Chilli cheese");
               qty = sc.nextInt();
                System.out.println("Enter Qty for Farm house");
               qty = sc.nextInt();
```

20:Accept a single digit from the user and display it in words. For example, if digit entered is 9, display Nine.

21. Write a program, which accepts two integers and an operator as a character (+ - * /), performs the

corresponding operation and displays the result.

```
class ass1_20{
   public static void main (String[] args){
       System.out.println(x:"Enter first number:");
       int num1=sc.nextInt();
       System.out.println(x:"Enter second number:");
       int num2=sc.nextInt();
System.out.println(x:"Enter your choice: 1.for addition(+) 2.for substraction(-) 3.for multiplication(
        int choice=sc.nextInt();
        switch (choice){
           case 1:
           System.out.println("Addition of two numbers num1:"+num1+" and num2:"+num2+" is:"+(num1+num2));
           break;
            System.out.println("Substraction of two numbers num1:"+num1+" and num2:"+num2+" is:"+(num1-num2));
           break;
           System.out.println("Multiplication of two numbers num1:"+num1+" and num2:"+num2+" is:"+(num1*num2));
           break;
            System.out.println("Division of two numbers num1:"+num1+" and num2:"+num2+" is:"+(num1/num2));
           default:
            System.out.println(x:"Invalid choice");
```