1. Write a program in Java to print "Your Name".

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Main.jova

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```

- 2. Write a program in java to perform all Operators.
- (a) Arithmetic Operator -

```
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Main.java
                                                              ≪ Share
                                                                           Run
                                                                                      Output
1 import java.util.Scanner;
                                                                                    Enter a two numbers :
2 class Main {
       public static void main(String[] args) {
          Scanner sc = new Scanner(System.in);
                                                                                    Sum = 16
           System.out.println("Enter a two numbers : ");
                                                                                    Subtraction = 8
          int a = sc.nextInt();
                                                                                    Mulplication = 48
           int b = sc.nextInt();
                                                                                    Division = 3
                                                                                    Modulus = 0
           System.out.println("Sum = "+(a+b));
           System.out.println("Subtraction = "+(a-b));
            System.out.println("Mulplication = "+(a*b));
            System.out.println("Division = "+(a/b));
           System.out.println("Modulus = "+(a%b));
```

(b) Relational Operator -

```
Main.java
                                                                                  Run
                                                                     ∝ Share
                                                                                             Output
   import java.util.Scanner;
                                                                                           Enter a two numbers :
   class Main {
       public static void main(String[] args) {
           Scanner sc = new Scanner(System.in);
                                                                                           a == b : true
            System.out.println("Enter a two numbers : ");
                                                                                           a != b : false
            int a = sc.nextInt();
                                                                                           a < b : false
            int b = sc.nextInt();
                                                                                           a <= b : true
            System.out.println("a == b : "+(a == b));
                                                                                           a > b : false
            System.out.println("a != b : "+(a != b));
                                                                                           a >= b : true
            System.out.println("a < b : "+(a < b));</pre>
            System.out.println("a \leq b : "+(a \leq b));
             System.out.println("a > b : "+(a > b));
             System.out.println("a \ge b : "+(a \ge b));
```

(c) Logical Operator -

```
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```

(d) Bitwise Operator -

```
-;o<u></u>;-
Main.java
                                                        45
                                                                    ∝ Share
                                                                                  Run
                                                                                            Output
1 import java.util.Scanner;
                                                                                           Enter a two numbers :
                                                                                           12
2 class Main {
       public static void main(String[] args) {
                                                                                           23
           Scanner sc = new Scanner(System.in);
                                                                                           a & b : 4
           System.out.println("Enter a two numbers : ");
                                                                                           a | b : 31
6
           int a = sc.nextInt();
                                                                                           a ^ b : 27
           int b = sc.nextInt();
                                                                                           ~ a : -13
            System.out.println("a & b : "+(a & b));
                                                                                           a << 2 : 48
            System.out.println("a | b : "+(a | b));
                                                                                           a >> 2 : 3
            System.out.println("a ^ b : "+(a ^ b));
            System.out.println("~ a : "+(~a));
            System.out.println("a \ll 2 : "+(a \ll 2));
            System.out.println("a >> 2 : "+(a >> 2));
```

(e) Assignment Operator -

```
Main.java
                                                       45
                                                                   ∝ Share
                                                                                           Output
1 import java.util.Scanner;
                                                                                         a += 10 : 30
2 - class Main {
       public static void main(String[] args) {
                                                                                         a *= 10 : 200
           Scanner sc = new Scanner(System.in);
                                                                                         a /= 10 : 20
           int a = 20;
            System.out.println("a += 10 : "+(a += 10));
            System.out.println("a -= 10 : "+(a -= 10));
            System.out.println("a *= 10 : "+(a *= 10));
10
            System.out.println("a /= 10 : "+(a /= 10));
```

(f) Unary Operator –

```
      Main.java
      The state of t
```

3. Write a program to check whether a number is even or odd.

```
Main.java

1 import java.util.Scanner;

2 class Main {
3 public static void main(String[] args) {
4 Scanner sc = new Scanner(System.in);
5 System.out.println("Enter a number : ");
6 int a = sc.nextInt();
7 |
8 if(a%2==0){
9 System.out.println("Even number");
10 |
11 else{
12 System.out.println("Odd number");
13 |
14 }
15 }
```

4. Write a program to print Even numbers.

5. Write a program to calculate the factorial of a given number.

```
Main.java
                                                                  ∝ Share
                                                                                         Output
1 import java.util.Scanner;
                                                                                        Enter the number :
2 class Main {
      public static void main(String[] args) {
                                                                                        factorial of 10! = 3628800
         System.out.println("Enter the number : ");
          Scanner sc = new Scanner(System.in);
          int n = sc.nextInt();
6
          int fact = 1;
          for(int i=1;i<=n;i++){
              fact *= i;
          System.out.println("factorial of "+n+"! = "+fact);
```

6. Write a program to reverse number.

```
Main.java
                                                          -;0;-
                                                                   ∝ Share
                                                                                          Output
1 import java.util.Scanner;
                                                                                        Enter the number :
2 class Main {
       public static void main(String[] args) {
          System.out.println("Enter the number : ");
          Scanner sc = new Scanner(System.in);
          int n = sc.nextInt();
          int remainder;
          int reverse = 0;
          for(int i=0;n>0;i++){
             remainder = n%10;
              reverse = reverse*10+remainder;
          System.out.println(reverse);
```

7. Write a program to check if a number is a palindrome number.

```
Main.java
                                                                   ∝ Share
                                                                                          Output
   import java.util.Scanner;
                                                                                         Enter the number :
2 class Main {
                                                                                         234
       public static void main(String[] args) {
                                                                                         432
          System.out.println("Enter the number : ");
                                                                                         Not Palindrome
          Scanner sc = new Scanner(System.in);
          int n = sc.nextInt();
          int original =n;
          int remainder;
          int reverse = 0;
          for(int i=0;n>0;i++){
              remainder = n%10;
              reverse = reverse*10+remainder;
              n = n/10;
          System.out.println(reverse);
          if(reverse == original){
           System.out.println("palindrome");
              System.out.println("Not Palindrome");
```

8. Write a program to check if a number is a Armstrong number.

```
Main.java
                                                                   ∝ Share
                                                                                          Output
                                                                                Run
1 import java.util.Scanner;
                                                                                         Enter the number :
2 class Main {
      public static void main(String[] args) {
                                                                                        36
          System.out.println("Enter the number : ");
                                                                                        not Armstrong number
          Scanner sc = new Scanner(System.in);
          int n = sc.nextInt();
           int original = n;
          int armstrong = 0,remainder;
          for(int i = 1; n>0; i++){
              remainder = n%10;
              armstrong = armstrong+(remainder*remainder*remainder);
              n = n/10;
          System.out.println(armstrong);
          if(original == armstrong){
              System.out.println("Armstrong number");
              System.out.println("not Armstrong number");
```

9. Write a program to check if a number is prime or not.

```
1 - import java.util.Scanner;
                                                                                          Enter the number :
   class Main {
        public static void main(String[] args) {
                                                                                          prime number
           System.out.println("Enter the number : ");
           Scanner sc = new Scanner(System.in);
           int n = sc.nextInt();
          int isprime = 0;
          for(int i=1;i<=n;i++){
              if(n%i==0){
10
              isprime++;
          if(isprime==2){
14
              System.out.println("prime number");
              System.out.println("Not prime number");
18
20
```

10. Write a program to