

P.D.E.A'S
Prof. Ramkrishna More A.C.S. College Akurdi Pune-44
Department of Computer Science
CS-359: Practical Course based on CS 355 (Object Oriented Programming using Java –I)
Assignment-1

1. Program-1 public class demo

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

Output:

Hello World

2. Program-2

```
public class demo  
{  
    public static void main(String[] args)  
    {  
        int n=10;  
        System.out.println(n);  
        System.out.println("n = " +n);  
        System.out.println("Value of n is " +n);  
    }  
}
```

Output:

10
n = 10
Value of n is 10

3. Program-3 (Arithmetic operators)

```
public class demo  
{  
    public static void main(String[] args)  
    {  
        int a=10, b= 30;  
        System.out.println("Value of a is " +a);  
        System.out.println("Value of b is " +b);  
        System.out.println("Addition of a and b is " + (a+b));  
        System.out.println("Subtraction of a and b is " + (a-b));  
        System.out.println("Multiplication of a and b is " + (a*b));  
        System.out.println("Division of a and b is " + (a/b));  
        System.out.println("Mod of a and b is " + (a%b));  
    }  
}
```

Output:

Value of a is 10
Value of b is 30

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Addition of a and b is 40
Subtraction of a and b is -20
Multiplication of a and b is 300
Division of a and b is 0
Mod of a and b is 10

4. Program-4 (Relational operators)

```
public class demo
{
    public static void main(String[] args)
    {
        int a=10, b= 30;
        System.out.println("Value of a is " +a);
        System.out.println("Value of b is " +b);
        System.out.println("a > b is " + (a > b));
        System.out.println("a < b is " + (a < b));
        System.out.println("a <= b is " + (a <= b));
        System.out.println("a >= b is " + (a >= b));
        System.out.println("a == b is " + (a == b));
        System.out.println("a != b is " + (a != b));
    }
}
```

Output:

Value of a is 10
Value of b is 30
a > b is false
a < b is true
a <= b is true
a >= b is false
a == b is false
a != b is true

5. Program-5 (Logical operators)

```
public class demo
{
    public static void main(String[] args)
    {
        int a=35, b=25;
        System.out.println("Value of a is " +a);
        System.out.println("Value of b is " +b);
        System.out.println("Logical AND && result is " + ((a % 5 == 0) && (a %
7 == 0)));
        System.out.println("Logical OR || result is " + ((b % 7 == 0) || (b %
3==0)));
        System.out.println("Logical NOT ! result is " + (!(a > b)));
    }
}
```

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```
    }  
}
```

Output:

Value of a is 35
Value of b is 25
Logical AND && result is true
Logical OR || result is false
Logical NOT ! result is false

6. Program-6: Even or odd (if - else)

```
public class demo  
{  
    public static void main(String[] args)  
    {  
        int a=35;  
        System.out.println("Value of a is " +a);  
        if(a%2==0)  
        {  
            System.out.println("a is even");  
        }  
        else  
        {  
            System.out.println("a is odd");  
        }  
    }  
}
```

Output

Value of a is 35
a is odd

7. Program-7:(if – else if)

```
public class demo  
{  
    public static void main(String[] args)  
    {  
        int a=90, b= 60;  
        System.out.println("Value of a is " +a);  
        System.out.println("Value of b is " +b);  
        if(a > b)  
        {  
            System.out.println("a larger than b ");  
        }  
        else if(a < b)  
        {  
            System.out.println("a is smaller than b");  
        }  
    }  
}
```

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```
        }  
        else  
        {  
            System.out.println("a and b are equal");  
        }  
    }  
}
```

Output:

Value of a is 90
Value of b is 60
a larger than b

8. Program-8:(Accept input (int) from user)

```
import java.util.*;  
public class demo  
{  
    public static void main(String[] args)  
    {  
        int n;  
        Scanner sc = new Scanner (System.in);  
        System.out.println("Enter a number");  
        n = sc.nextInt();  
        System.out.println("Value of n is " +n);  
    }  
}
```

Output:

Enter a number 20
Value of n is 20

9. Program-9:(Accept input (Character) from user)

```
import java.util.*;  
public class demo  
{  
    public static void main(String[] args)  
    {  
        char ch;  
        Scanner sc = new Scanner (System.in);  
        System.out.print("Enter Character");  
        ch = sc.next().charAt(0);  
        System.out.println("Entered Charcater is " +ch);  
    }  
}
```

Output:

Enter Character A
Entered Character is A

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10.Program-10:(Accept input (String) from user)

```
import java.util.*;
public class demo
{
    public static void main(String[] args)
    {
        String str;
        Scanner sc = new Scanner (System.in);
        System.out.println("Enter first String");
        str = sc.nextLine();
        System.out.println("Entered String is " +str);
    }
}
```

Output:

Enter first String I am in TYBSc(CS)
Entered String is I am in TYBSc(CS)