## BHAVANS COLLEGE AUTONOMOUS, ANDHERI WEST

## PRACTICAL JOURNAL

## **INDEX**

Sr No.	Practical No.	Торіс	Date	Signature

```
// Print statement
fun main() {
                                                        Hello World...
  println("Hello World...!")
// Variable declaration - val and var
fun main() {
  val a = 5
  var b = 5
                                                     'val' cannot be reassigned
  a = 10
  b = 10
  println(a)
  println(b)
// Variable usage
fun main() {
                                    Hello, You got a message from Shinchan
  val str = "Shinchan"
  println("Hello, You got a message from $str")
// Assignment Options
fun main() {
  var test = 0
  println("var test = 0 --> \$test")
  test = 5
                                                       var test = 0 --> 0
  println("test = 5 --> test")
                                                       test = 5 --> 5
  test = test + 5
                                                       test = test + 5 -->10
  println("test = test + 5 --> \$test")
  test+=5
                                                       test += 5 --> 15
  println("test += 5 --> \$test")
                                                       test -= 5 --> 10
  test=5
                                                               *= 5 --> 50
  println("test -= 5 --> $test")
                                                        test /= 5 --> 10
  test*=5
  println("test *= 5 --> \$test")
  test/=5
  println("test /= 5 --> $test")
// Variable Declaration methods [either value/initialise or type mentioning]
fun main() {
  val a: Int
  a = 10
                      // 1st declared then assigned
  println("a = $a")
  val b: Int = 20
                      // declared and assigned at the same time
  println("b = $b")
// List – allows duplicate values
fun main() {
  val lst: List<String> = listOf("Red", "Yellow", "Green") // :List<String> is not necessary
  println(lst)
                                                              [Red, Yellow, Green]
// Mutable List
fun main() {
  val lst: MutableList<String> = mutableListOf("Red","Yellow","Green")
  println(lst)
                                                     // :MutableList<String> is not necessary
  lst.add("Blue")
                                                         [Red, Yellow, Green]
  println(lst)
                                                         [Red, Yellow, Green, Blue]
}
```

```
// Set – doesn't allow duplicate values
fun main() {
  val st: Set<String> = setOf("Monday", "Tuesday", "Wednesday")
  println(st)
                                                            Tuesday, Wednesday
                                                Monday,
// Mutable Set
fun main() {
  val st: MutableSet<String> = mutableSetOf("Monday","Tuesday","Wednesday")
  println(st)
  st.add("Sunday")
                                 [Monday, Tuesday, Wednesday]
  println(st)
                                 [Monday, Tuesday, Wednesday,
                                                                           Sunday ]
  st.remove("Monday")
                                  Tuesday, Wednesday, Sunday]
  println(st)
// Set Count
fun main() {
  val st: Set<String> = setOf("Monday","Tuesday","Wednesday","Monday")
                                                                        Set has 3 values.
  println("Set has ${st.count()} values.") // Counts only unique records
fun main() {
  val st: List<String> = listOf("Monday","Tuesday","Wednesday","Monday")
  println("List has ${st.count()} values.") // Counts all records
                                                                        List has 4 values.
// in keyword
fun main() {
  val st: Set<String> = setOf("Sunday", "Monday", "Tuesday", "Wednesday")
  println("Sunday" in st)
// if-else statements
fun main() {
  val a = 5
  val b = 10
  val max: Int
                                                            Maximum value is 10
  if (a > b) {max = a} else {max = b}
                                                            Maximum value is 10
  println("Maximum value is $max")
  val new max = if (a > b) a else b
  println("Maximum value is $new max")
fun main() {
  val a = 10
  val b = 10
  val max: String
  if (a > b) {
    max = "a has maximum value"
                                                      Both have same value.
  \} else if (b > a) {
    max = "b has maximum value"
    max = "Both have same value."}
  println(max)
                                                                Value of i = 1
// for loop
                                                                 alue of i = 2
fun main() {
  for (i in 1..5) {
                                                                Value\ of\ i=4
    println("Value of i = i")}}
```