1st Program :-

Input:

```
Print("Hello World")
```

Output:

Hello World

2nd Program:-

Input:-

```
var fruits = ["strawberries", "limes", "tangerines"]
fruits[1] = "grapes"

var occupations = [
    "Malcolm": "Captain",
    "Kaylee": "Mechanic",
]
occupations["Jayne"] = "Public Relations"
fruits.append("blueberries")
print(fruits)
```

Output:

```
["strawberries","limes","tangerines","blueberries"]
```

3rd Program:-

Input:

```
let individualScores = [75, 43, 103, 87, 12]
var teamScore = 0
for score in individualScores {
    if score > 50 {
        teamScore += 3
    } else {
        teamScore += 1
    }
}
print(teamScore)
```

Output:

11

4th Program:-

Input:

```
let vegetable = "red pepper"
switch vegetable {
case "celery":
   print("Add some raisins and make ants on a log.")
case "cucumber", "watercress":
   print("That would make a good tea sandwich.")
case let x where x.hasSuffix("pepper"):
   print("Is it a spicy \(x)?")
default:
   print("Everything tastes good in soup.")
}
```

Output:

Is it a spicy red pepper?

5th Program:-

Input:

```
let interestingNumbers = [
   "Prime": [2, 3, 5, 7, 11, 13],
   "Fibonacci": [1, 1, 2, 3, 5, 8],
   "Square": [1, 4, 9, 16, 25],
]
var largest = 0
for (_, numbers) in interestingNumbers {
   for number in numbers {
      if number > largest {
         largest = number
      }
   }
```

```
}
print(largest)
```

Output:-

25

6th Program:-

Input:

```
var n = 2
while n < 100 {
    n *= 2
}
print(n)
// Prints "128"

var m = 2
repeat {
    m *= 2
} while m < 100
print(m)
```

Output:

128

7th Program:-

Input:

```
var total = 0
for i in 0..<4 {
    total += i
}
print(total)
```

Output:

6

8th Program:-

Input:

```
 func calculateStatistics(scores: [Int]) -> (min: Int, max: Int, sum: Int) {
   var min = scores[0]
   var max = scores[0]
   var sum = 0

   for score in scores {
       if score > max {
           max = score
       } else if score < min {
           min = score
       }
       sum += score
   }

   return (min, max, sum)
}
let statistics = calculateStatistics(scores: [5, 3, 100, 3, 9])
print(statistics.sum)
```

Output:

120

9th Program:-

Input:

```
struct Student {
var name : String
var address : String
var age : Int
var grade : Int
}

var student = Student(name:"Mithlesh",age:18, address:"123 Main Street,City,State,"grade:12)

print ("Student Information:")
print ("Name:\(Student.name)")
print ("Age:\(Student.age)")
print ("Address:\(Student.address)")
print ("Grade:\(Student.grade)")
```

Output:

Student Information:
Name: Mithlesh
Age : 18
Address : 123 Main Street, City, State
Grade : 12th

10th Program:-

Input:

```
let pi = 3.14
var radius = 5.0
radius = 10.0
print (pi)
print (radius)
```

Output:-

3.14
10

11th Program:-

Input:

```
var principle = 1000
var rate = 5
var time = 5
Simple Interest: Double= principle*rate*time%100

print ("Simple Interest is :\(Simple Interest)")
```

Output:

Simple Interest is : 250.0

12th Program:-

Input:

```
var str = readLine()
print (str)
```

Output:

```
Mithlesh
Optional ("Mithlesh")
```

13th Program :-

Input:

```
var n1,n2: Int
print ("Please Enter two Integer Number")
n1 = Int (readLine()!)!
n2 = Int(readLine()!)!
print ("Th Sum of\(n1) and \(n2) is = \(n1+n2)")
```

Output:

```
Please Enter two Integer Number
23
25
The Sum of 23 and 25 is =48
```

14th Program:-

Input:

```
var num= 9
if num%2 =0
{
print ("Even")
}
else
{
print ("Odd")
}
```

Output:

```
Odd
```

15th Program:-

Input:

```
let string="Mithlesh"
let CharCount = string.Count
print ("Character count of String\(string)is: \(charCount)")
```

Output:

Character Count of String Mithlesh is : 8