- 1 .Install the go and unzip that file
- 2. Set the Environment Variable:

```
sudo nano ~/.bashrc
```

3.Add the following line to the end of the file, replacing /usr/local/go/bin with the actual path to your Go installation:

```
export PATH=$PATH:/usr/local/go/bin
```

4. Save the file and source it to apply the changes immediately:

```
source ~/.bashrc
```

5. Verify the Installation:

go version

6.Create a new text file named demo.go

Touch demo.go

7.past the code in that file

Code:

}

```
package main
```

```
import (
        "fmt"
        "sync"
)
func worker(id int, jobs <-chan int, results chan<- int, wg *sync.WaitGroup) {</pre>
```

```
defer wg.Done()

for j := range jobs {
      fmt.Printf("Worker %d processing job %d\n", id, j)
      results <- j * 2
}</pre>
```

```
func main() {
     var wg sync.WaitGroup
     jobs := make(chan int, 100)
```

results := make(chan int, 100)

```
wg.Wait()
close(results)
```

close(jobs)

```
for r := range results {
         fmt.Println("Result:", r)
}
```

Code is for Go's concurrency feature with goroutines and channels:

Compile:

go run 30assignment.go

```
Worker 2 processing job 1
Worker 2 processing job 4
Worker 2 processing job 5
Worker 2 processing job 7
Worker 2 processing job 8
Worker 2 processing job 9
Worker 0 processing job 2
Worker 1 processing job 6
Result: 2
Result: 6
Result: 8
Result: 10
Result: 14
Result: 16
Result: 18
Result: 18
Result: 18
Result: 18
Result: 4
Result: 12
rajan@rajan-lature:~$
```