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```r
emp.data <- data.frame(
  emp_id = c(1:5),
  emp_name = c("Ricky", "Danish", "Mini", "Ryan", "Gary"),
  salary = c(643.3, 515.2, 671.0, 729.0, 943.25),
  start_date = as.Date(c("2012-01-01", "2013-09-23", "2014-11-15", "2014-05-11", "2015-03-27")),
  stringsAsFactors = FALSE
)
print(emp.data)
```

Program input

Output

```
  emp_id emp_name salary start_date
1      1    Ricky 643.30 2012-01-01
2      2   Danish 515.20 2013-09-23
3      3     Mini 671.00 2014-11-15
4      4     Ryan 729.00 2014-05-11
5      5     Gary 943.25 2015-03-27

[Execution complete with exit code 0]
```

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R

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```r
emp.data <- data.frame(
  emp_id = c(1:5),
  emp_name = c("Ricky", "Danish", "Mini", "Ryan", "Gary"),
  salary = c(643.3, 515.2, 671.0, 729.0, 943.25),
  start_date = as.Date(c("2012-01-01", "2013-09-23", "2014-11-15", "2014-05-11", "2015-03-27")),
  stringsAsFactors = FALSE
)
print(emp.data)
str(emp.data)
```

Program input

Output

```
  emp_id emp_name salary start_date
1      1    Ricky 643.30 2012-01-01
2      2   Danish 515.20 2013-09-23
3      3     Mini 671.00 2014-11-15
4      4     Ryan 729.00 2014-05-11
5      5     Gary 943.25 2015-03-27
'data.frame':   5 obs. of  4 variables:
 $ emp_id    : int  1 2 3 4 5
 $ emp_name  : chr  "Ricky" "Danish" "Mini" "Ryan" ...
 $ salary    : num  643 515 671 729 943
 $ start_date: Date, format: "2012-01-01" "2013-09-23" ...

[Execution complete with exit code 0]
```

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R

Run Save

```r
emp.data <- data.frame(
  emp_id = c(1:5),
  emp_name = c("Ricky", "Danish", "Mini", "Ryan", "Gary"),
  salary = c(643.3, 515.2, 671.0, 729.0, 943.25),
  start_date = as.Date(c("2012-01-01", "2013-09-23", "2014-11-15", "2014-05-11", "2015-03-27")),
  stringsAsFactors = FALSE
)
result <- data.frame(emp.data$emp_name, emp.data$salary)
print(result)
```

Program input

Output

```
  emp.data.emp_name emp.data.salary
1             Ricky          643.30
2            Danish          515.20
3              Mini          671.00
4              Ryan          729.00
5              Gary          943.25

[Execution complete with exit code 0]
```


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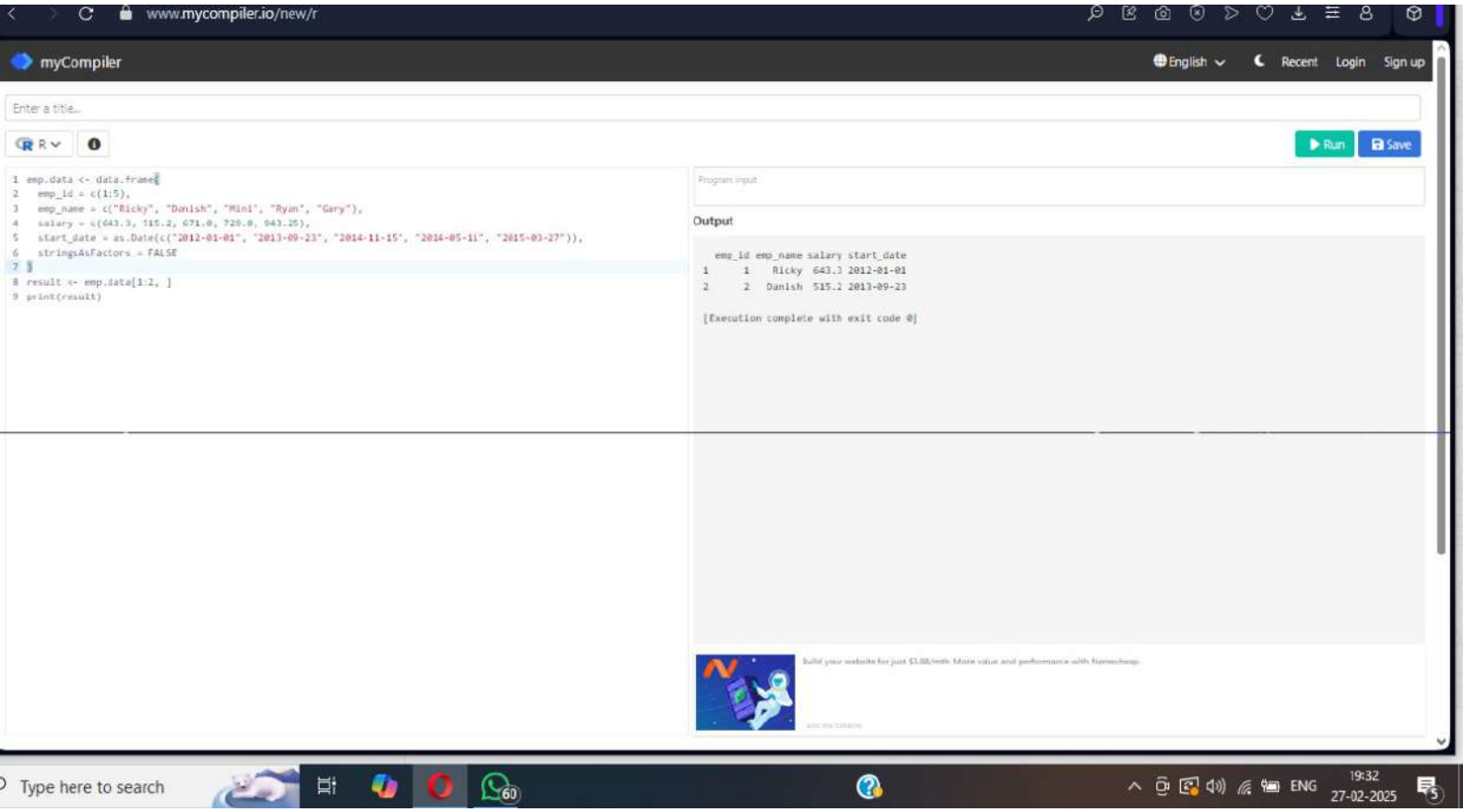
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Save
1 emp.data <- data.frame(
2 emp_id = c(1:5),
3 emp_name = c("Ricky", "Danish", "Mini", "Ryan", "Gary"),
4 salary = c(643.3, 515.2, 671.0, 729.0, 843.25),
5 start_date = as.Date(c("2012-01-01", "2013-09-23", "2014-11-15", "2014-05-11", "2015-03-27")),
6 stringsAsFactors = FALSE
7)
8 result <- emp.data[1:2,]
9 print(result)
Program input
Output
emp_id emp_name salary start_date
1 1 Ricky 643.3 2012-01-01
2 2 Danish 515.2 2013-09-23
[Execution complete with exit code 0]

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R

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```r
emp.data <- data.frame(
  emp_id = c(1:5),
  emp_name = c("Ricky", "Danish", "Mini", "Ryan", "Gary"),
  salary = c(643.3, 515.2, 671.0, 729.0, 943.25),
  start_date = as.Date(c("2012-01-01", "2013-09-23", "2014-11-15", "2014-05-11", "2015-03-27")),
  stringsAsFactors = FALSE
)
# Add Column
emp.data$dept <- c("IT", "Operations", "IT", "HR", "Finance")
v <- emp.data
print(v)

# Add Row
emp.newdata <- data.frame(
  emp_id = c(6:8),
  emp_name = c("Rasel", "Pranab", "Tusar"),
  salary = c(578.0, 722.5, 632.8),
  start_date = as.Date(c("2013-05-21", "2013-07-30", "2014-06-17")),
  dept = c("IT", "Operations", "Finance"),
  stringsAsFactors = FALSE
)
emp.finaldata <- rbind(emp.data, emp.newdata)
print(emp.finaldata)
```

Program input

Output

```
  emp_id emp_name salary start_date       dept
1      1    Ricky 643.30 2012-01-01         IT
2      2   Danish 515.20 2013-09-23 Operations
3      3     Mini 671.00 2014-11-15         IT
4      4     Ryan 729.00 2014-05-11         HR
5      5     Gary 943.25 2015-03-27    Finance
  emp_id emp_name salary start_date       dept
1      1    Ricky 643.30 2012-01-01         IT
2      2   Danish 515.20 2013-09-23 Operations
3      3     Mini 671.00 2014-11-15         IT
4      4     Ryan 729.00 2014-05-11         HR
5      5     Gary 943.25 2015-03-27    Finance
6      6    Rasel 578.00 2013-05-21         IT
7      7   Pranab 722.50 2013-07-30 Operations
8      8    Tusar 632.80 2014-06-17    Finance

[Execution complete with exit code 0]
```


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R

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```r
emp.data <- data.frame(
  emp_id = c(1:5),
  emp_name = c("Ricky", "Danish", "Mini", "Ryan", "Gary"),
  salary = c(643.3, 515.2, 671.0, 729.0, 843.25),
  start_date = as.Date(c("2011-01-01", "2013-09-23", "2014-11-15", "2014-05-11", "2015-03-27")),
  stringsAsFactors = FALSE
)
City <- c("delhi", "bangalore", "chennai", "mumbai")
Zipcode <- c(123456, 789654, 698748, 456986)

oldaddresses <- cbind(City, Zipcode)
print(oldaddresses)

newaddress <- data.frame(City = c("punjab", "kerala"), Zipcode = c(456978, 569875))
print(newaddress)

totaladdress <- rbind(oldaddresses, newaddress)
print(totaladdress)
```

Program input

Output

```
     City        Zipcode
[1,] "delhi"     "123456"
[2,] "bangalore" "789654"
[3,] "chennai"   "698748"
[4,] "mumbai"    "456986"
    City Zipcode
1 punjab  456978
2 kerala  569875
       City Zipcode
1     delhi  123456
2 bangalore  789654
3   chennai  698748
4    mumbai  456986
5    punjab  456978
6    kerala  569875

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```

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R

Run Save

```r
emp.data <- data.frame(
   emp_id = c(1:5),
   emp_name = c("Ricky", "Danish", "Mini", "Ryan", "Gary"),
   salary = c(643.3, 515.2, 671.0, 729.0, 943.25),
   start_date = as.Date(c("2012-01-01", "2013-09-23", "2014-11-15", "1014-05-11", "2015-03-27")),
   stringsAsFactors = FALSE
)
df = data.frame(Ints = integer(),
                Doubles = double(),
                Characters = character(),
                Logicals = logical(),
                Factors = factor(),
                stringsAsFactors = FALSE)
print("Structure of the empty dataframe:")
print(str(df))
```

Program input

Output

```
[1] "Structure of the empty dataframe:"
'data.frame':   0 obs. of  5 variables:
 $ Ints      : int
 $ Doubles   : num
 $ Characters: chr
 $ Logicals  : logi
 $ Factors   : Factor w/ 0 levels:
NULL

[Execution complete with exit code 0]
```


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R

Run Save

```r
emp.data <- data.frame(
  emp_id = c(1:5),
  emp_name = c("Ricky", "Danish", "Mini", "Ayan", "Gary"),
  salary = c(643.3, 515.2, 671.0, 729.0, 941.25),
  start_date = as.Date(c("2012-01-01", "2013-09-23", "2014-11-15", "2014-05-11", "2015-03-27")),
  stringsAsFactors = FALSE
)
name = c('Anastasia', 'Dima', 'Katherine', 'James', 'Emily', 'Michael', 'Matthew', 'Laura', 'Kevin', 'Jonas')
score = c(12.5, 9, 16.5, 12, 9, 20, 14.5, 13.5, 8, 19)
attempts = c(1, 3, 2, 3, 2, 3, 1, 1, 2, 1)
qualify = c('yes', 'no', 'yes', 'no', 'no', 'yes', 'yes', 'no', 'no', 'yes')

print("Original data frame:")
print(name)
print(score)
print(attempts)
print(qualify)

df = data.frame(name, score, attempts, qualify)
print(df)
```

Program input

Output

```
[1] "Original data frame:"
 [1] "Anastasia" "Dima"     "Katherine" "James"     "Emily"     "Michael"
 [7] "Matthew"   "Laura"     "Kevin"     "Jonas"
 [1] 12.5  9.0 16.5 12.0  9.0 20.0 14.5 13.5  8.0 19.0
 [1] 1 3 2 3 2 3 1 1 2 1
 [1] "yes" "no"  "yes" "no"  "no"  "yes" "yes" "no"  "no"  "yes"
       name score attempts qualify
1  Anastasia  12.5        1     yes
2       Dima   9.0        3      no
3  Katherine  16.5        2     yes
4      James  12.0        3      no
5      Emily   9.0        2      no
6    Michael  20.0        3     yes
7    Matthew  14.5        1     yes
8      Laura  13.5        1      no
9      Kevin   8.0        2      no
10     Jonas  19.0        1     yes

[Execution complete with exit code 0]
```


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R

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```r
emp.data <- data.frame(
  emp_id = c(1:5),
  emp_name = c("Ricky", "Danish", "Mini", "Ryan", "Gary"),
  salary = c(643.3, 515.2, 671.0, 729.0, 943.25),
  start_date = as.Date(c("2012-01-01", "2013-09-23", "2014-11-15", "2014-05-11", "2015-03-27")),
  stringsAsFactors = FALSE
)
producers <- data.frame(
  surname = c("Spielberg", "Scorsese", "Hitchcock", "Tarantino", "Polanski"),
  nationality = c("US", "US", "UK", "US", "Poland"),
  stringsAsFactors = FALSE
)

movies <- data.frame(
  surname = c("Spielberg", "Scorsese", "Hitchcock", "Hitchcock", "Spielberg", "Tarantino", "Polanski"),
  title = c("Super 8", "Taxi Driver", "Psycho", "North by Northwest", "Catch Me If You Can", "Reservoir Dogs", "Cl
  stringsAsFactors = FALSE
)

m1 <- merge(producers, movies, by.x = "surname")
print(m1)
dim(m1)
```

Program input

Output

```
    surname nationality              title
1 Hitchcock          UK             Psycho
2 Hitchcock          UK  North by Northwest
3  Polanski      Poland          Chinatown
4  Scorsese          US        Taxi Driver
5 Spielberg          US             Super 8
6 Spielberg          US Catch Me If You Can
7 Tarantino          US      Reservoir Dogs
[1] 7 3

[Execution complete with exit code 0]
```


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R

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```r
emp.data <- data.frame(
  emp_id = c(1:5),
  emp_name = c("Ricky", "Banish", "Mini", "Ryan", "Gary"),
  salary = c(643.3, 515.2, 671.0, 729.8, 943.25),
  start_date = as.Date(c("2012-01-01", "2013-09-23", "2014-11-15", "2014-05-11", "2015-03-27")),
  stringsAsFactors = FALSE
)
df = data.frame(Ints = integer(),
                Doubles = double(),
                Characters = character(),
                Logicals = logical(),
                Factors = factor(),
                stringsAsFactors = FALSE)
print("Structure of the empty dataframe:")
print(str(df))
```

Program input

Output

```
[1] "Structure of the empty dataframe:"
'data.frame':   0 obs. of  5 variables:
 $ Ints      : int
 $ Doubles   : num
 $ Characters: chr
 $ Logicals  : logi
 $ Factors   : Factor w/ 0 levels:
NULL

[Execution complete with exit code 0]
```


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