1. Write a R Program to find the Maximum and Minimum of a three numbers
Ans:-

```r
a <- 5
b <- 9
c <- 2

max_value <- max(a, b, c)
min_value <- min(a, b, c)

print(paste("The maximum value is:", max_value))
print(paste("The minimum value is:", min_value))
```

----

2. Write a R Program to find the factorial of a given number.
Ans:-

```r
num <- 5

fact <- 1

for(i in 1:num){
  fact <- fact * i
}

print(paste("The factorial of", num, "is", fact))
```

----

3. Write a R Program to print the Fibonacci series of a given number.
Ans:-

```r
num_terms <- 10

first <- 0
second <- 1


cat(first, second, sep=", ")
```

```
for(i in 3:num_terms){
  next_term <- first + second
  cat(", ", next_term)
  first <- second
  second <- next_term
}
```

----

4. Write a R program to find the maximum and the minimum value of a given vector
Ans:-

```
vec <- c(5, 9, 2, 12, 10)
```

```
max_value <- max(vec)
min_value <- min(vec)
```

```
print(paste("The maximum value is:", max_value))
print(paste("The minimum value is:", min_value))
```

----

5. Write a R program to create a list of elements using vectors, matrices and a functions. Print the content of the list
Ans:-

```
vec <- c(1, 2, 3)
```

```
mat <- matrix(1:9, nrow=3)
```

```
my_function <- function(x){
  return(x^2)
}
```

```
my_list <- list(my_vector=vec, my_matrix=mat, my_function=my_function)
```

print(my_list)

----

6. Write a R program to compute sum, mean and product of a given vector
elements
Ans:-

```r
vec <- c(2, 4, 6, 8, 10)


sum_vec <- sum(vec)
mean_vec <- mean(vec)
prod_vec <- prod(vec)


print(paste("The sum of the vector is:", sum_vec))
print(paste("The mean of the vector is:", mean_vec))
print(paste("The product of the vector is:", prod_vec))
```