Create a vector `c = [5, 10, 15, 20, 25, 30]` and write a program which returns the maximum and minimum of this vector

```r
c = c(5, 10, 15, 20, 25, 30)
max_c = max(c)
min_c = min(c)
```

Write a program in R to find factorial of a number by taking input from the user. Please print error message if the input is negative.

```r
factorial = function(n){
  if (n < 0){
    print("Error: Factorial of negative number is not defined")
  } else if (n == 0){
    return(1)
  } else {
    return(n*factorial(n-1))
  }
}

n = as.integer(readline(prompt = "Enter a number: "))
```

Write a program to write first n terms of a Fibonacci series. You may take n as input from the user.

```r
fibonacci = function(n){
  if (n == 1){
    return(0)
  } else if (n == 2){
    return(1)
  } else {
    return(fibonacci(n-1) + fibonacci(n-2))
  }
}

n = as.integer(readline(prompt = "Enter a number: "))
```

Write an R program to make a simple calculator which can perform addition, subtraction, multiplication and division.

```r
calculator = function(a, b, operator){
  if (operator == "+"){
    return(a+b)
  } else if (operator == "-"){
    return(a-b)
  } else if (operator == "*"){
    return(a*b)
  } else if (operator == "/"){
    return(a/b)
  } else {
    return("Invalid operator")
  }
}

a = as.integer(readline(prompt = "Enter first number: "))
b = as.integer(readline(prompt = "Enter second number: "))

operator = readline(prompt = "Enter operator: ")

result = calculator(a, b, operator)
print(result)
```

Explore `plot` , `pie` , `barplot` etc.

```r
# Plot
x = c(1, 2, 3, 4, 5)
y = c(1, 4, 9, 16, 25)

plot(x, y, type = "o", col = "blue")

# Pie
slices = c(10, 12, 4, 16, 8)
lbls = c("US", "UK", "India", "Germany", "Australia")

pie(slices, labels = lbls, main = "Pie Chart of Countries")

# Barplot
```

```r
height = c(100, 200, 300, 400, 500)
names = c("A", "B", "C", "D", "E")

barplot(height, names.arg = names, col = "blue")
```