```
# 1. To perform and print addition, subtraction, division and multiplication of two
   cat("\014")
   num1 <- as.numeric(readline(prompt = "Enter the first number: "))</pre>
   num2 <- as.numeric(readline(prompt = "Enter the second number: "))</pre>
   addition <- num1 + num2
    subtraction <- num1 - num2
   multiplication <- num1 * num2
   if (num2 != 0) {
     division <- num1 / num2
    } else {
      division <- "Undefined (Division by zero)"
    cat("The addition of", num1, "and", num2, "is", addition, "\n")
    cat("The subtraction of", num1, "and", num2, "is", subtraction, "\n")
    cat("The multiplication of", num1, "and", num2, "is", multiplication, "\n")
    cat("The division of", num1, "by", num2, "is", division, "\n")
    # Output :-
   "Enter the first number: 9
    Enter the second number: 3
    The addition of 9 and 3 is 12
    The subtraction of 9 and 3 is 6
    The multiplication of 9 and 3 is 27
    The division of 9 by 3 is 3"
# 2.
        To enter the temperature in Celsius and convert it to Fahrenheit and vice versa.
    cat("\014")
    c <- as.numeric(readline(prompt = "Enter the temp in Celsius : "))
    f <- as.numeric(readline(prompt = "Enter the temp in Fahrenheit : "))</pre>
    fahrenheit <- (c * 9/5) + 32
    cat(c, "°C =", fahrenheit, "°F\n")
    celsius <- (f - 32) * 5/9
   cat(f, "°F =", celsius, "°C\n")
    # Output :
    "Enter the temp in Celsius: 32
    Enter the temp in Fahrenheit: 97
    32 \, ^{\circ}C = 89.6 \, ^{\circ}F
    97 °F = 36.11111 °C"
# 3.
        To enter the amount in rupees and convert it to dollar and vice versa.
   cat("\014")
    exchange rate <- 83.0
    r <- as.numeric(readline(prompt = "Enter the Rupees : "))
    d <- as.numeric(readline(prompt = "Enter the Doller: "))</pre>
    dollars <- r / exchange rate
    cat(r, "INR = ", round(dollars, 2), "USD\n")
    rupees <- d * exchange_rate</pre>
   cat(d, "USD =", round(rupees, 2), "INR\n")
    # Output:
    "Enter the Rupees : 100
    Enter the Doller: 5
    100 \text{ INR} = 1.2 \text{ USD}
```

```
5 \text{ USD} = 415 \text{ INR"}
```

```
# 4.
        To swap the values of two variables with using third variable.
    cat("\014")
    num1 <- as.numeric(readline(prompt = "Enter the first number: "))</pre>
    num2 <- as.numeric(readline(prompt = "Enter the second number: "))</pre>
   num3 = num1
   num1 = num2
   num2 = num3
   cat("The num1 :", num1,"\n")
   cat("The num2 :", num2,"\n")
    # Output :
    "Enter the first number: 6
    Enter the second number: 2
    The num1 : 2
    The num2 : 6"
# 5.
        To swap the values of two variables without using third variable.
    cat("\014")
    num1 <- as.numeric(readline(prompt = "Enter the first number: "))</pre>
    num2 <- as.numeric(readline(prompt = "Enter the second number: "))</pre>
   num1 = num1 + num2
   num2 = num1-num2
   num1 = num1-num2
   cat("The num1 :", num1,"\n")
   cat("The num2 :", num2,"\n")
    # Output:
    "Enter the first number: 8
   Enter the second number: 3
    The num1:3
    The num2 : 8 "
      To calculate and display the volume of a CUBE having its height (h=10cm), width
(w=12cm) and depth (8cm).
    cat("\014")
   h <- as.numeric(readline(prompt = "Enter the height: "))
    w <- as.numeric(readline(prompt = "Enter the width : "))</pre>
    d <- as.numeric(readline(prompt = "Enter the depth : "))</pre>
   volume <-h * w * d
    cat("The volume of the cube is:", volume, "cm3\n")
    # Output:
   "Enter the height: 10
   Enter the width: 12
   Enter the depth: 8
    The volume of the cube is: 960 \text{ cm}^3"
# 7.
        To calculate and print simple interest.
    cat("\014")
    p <- as.numeric(readline(prompt = "Enter Principal Amount (P): "))</pre>
    r <- as.numeric(readline(prompt = "Enter Rate of Interest (R% per annum): "))
    t <- as.numeric(readline(prompt = "Enter Time Period (T in years): "))
    si < - (p * r * t) / 100
```

```
cat("Simple Interest =", si, "\n")
# Output :
"Enter Principal Amount (P): 5000
Enter Rate of Interest (R% per annum): 5
Enter Time Period (T in years): 2
Simple Interest = 500 "
```