

R PROGRAMING

1. **COMMENTS:**

2. **VARIABLE CREATING AND SYNTAX :**

- Variable names should start with alphabets and should only contain alphabets,numbers,underscore(_) or period(.)
- Variable names are case sensitive
- In R programming there is no code for declaration of variable
- When you assign value to it, automatically a variable is created

3. **DATA TYPES** in R programming : There are 5 types of Datatypes in R programming

- Numeric Type (eg: num=10.2): any decimal / non decimal number
- Integer Type(eg: num = 345L): any non decimal number
- Complex Type(eg: num=2+3i): complex number
- Character Type: (eg:name="KIA")
- logical(eg:is_valid=TRUE)

4. **NUMBERS** in R Programming

- Numeric
- Integer
- Complex

5. **TYPE CONVERSION**

- as.numerical()
- as.integer()
- as.complex()

6. **BUILT IN FUNCTION : MATHS**

- max()
- min()
- sqrt()
- abs()
- ceiling()
- floor()

7. **BUILT IN FUNCTION: STR**

- nchar()
- grepl()
- cat()
- paste()

8. **BUILT IN FUNCTION : GENERAL**

- print() : To print the values
- class(): Data type of variable

9. **IF Statement,IF-ELSE Statement,ELSE-IF Ladder**

- Syntax :
If (condition) {
 Block of code
}else if(condition) {
 Block of code
}else {
 Block of code
}

10. WHILE Loop and FOR Loop

- while(condition){
 Block of code
}
- For (x in iter){
 Block of code
}

11. FUNCTION

- Syntax:
Function_name <- function() {
 Block of code
}