# 1.Question answer

a<-rnorm(3,mean = 5, sd=1)

b<-rnorm(3,mean = 3, sd=3)

c<-rnorm(4,mean = 1, sd=4)

Random<-c(a,b,c)

Random

#2. creating a vector LogExp

var\_log<-c(1,2,3,4,5)

var1\_log<-c(log(var\_log))

var\_exp<-c(6,7,8,9,10)

var1\_exp<-c(exp(var\_exp))

LogExp<-c(var1\_log,var1\_exp)

LogExp

#3. Adding thousand and negative thousand

negative\_thousand <- seq(-1000,0,1)

thousand <- seq(0,1000,1)

Final\_Thousand <- c(negative\_thousand + thousand)

Final\_Thousand

#4.Extracting values

Final\_Thousand[500]

First\_Hundred<-c(Final\_Thousand[1:100])

First\_Hundred

Last\_Hundred<-c((length(First\_Hundred)-100):length(First\_Hundred))

Last\_Hundred

Werid\_set<-c(Final\_Thousand[321:764])

Werid\_set

#5.Creating list Book\_Details

Book\_Details <-list(Book\_Name=c("Che","Guvur","Ambani","Google","Karl","max","Sundar","Pichai","Bharathi","Arunachalam"),

Author\_Name=c("federal","castro","dhirubhai","larry","nalla","kannu","Google","CEO","Poet","Mururganathan"),

Book\_Cost=c(1000,2000,3000,4000,5000,6000,7000,8000,9000,9500))

Book\_Details

#6.Extracing details from Book\_details

Book\_Details$Book\_Name

Book\_Details$Author\_Name

Book\_Details$Book\_Cost

Book\_Details[[1]][4]

Book\_Details[[2]][2]

Book\_Details[[3]][length(Book\_Details$Book\_Cost)]

#7.Loding inbuild data set

#View(women)

data(women)

women[6,2]#extracting 6th row 2nd column

#nrow(women)

#extracting last 4 rows

women[c(nrow(women)-3,nrow(women)-2,nrow(women)-1,nrow(women)),]

#extracting alternative rows in dataset

women[c(seq(1,nrow(women),2)),]

#8.Student dataset with ten rows and different data type

Creating data set students with different data type so used data frames.

Student <- data.frame(Name=c("Ram","Arun","Raju","Aravind","Balu","Ragav","Bharathi","Philips","Ragu","Sundar"),

Department=c("CSE","ECE","MECH","EEE","EI","CSE","ECE","MECH","EEE","EI"),

CGPA=c(8.43,8.45,9.00,9.12,9.45,9.55,9.70,9.80,9.85,10.00),

Placement=c(T,T,T,T,T,T,T,T,T,T),

stringsAsFactors = FALSE)

#str(Student)