Session 3: Basic Operations in R

Assignment –

1. Create a numerical vector to store the odd numbers between 1 to 100
2. Create the numerical vector with following values

    1,2,3,4,5,8,6,2,11

    - Create 3x3 matrix from the vector
3. Consider the following vector a<-c(NA,11:15,NA,NA) remove all the NA and find the mean of the vector
4. Consider the vector x=c("apple","banana","grape")

Replace the first occurrence of a with '$'

Solutions to Assignment Questions

Session 3 Basic operations in R Assignment 1

Answer 1

```
#create the vector using command
>     a<-c(seq(1,100,2))
```

Answer 2 -

```
 #create vector b with values 1,2,3,4,5 using the below command
>  b<-c(1,2,3,4,5)
#create vector c with values 8,6,2,11 using below command
> c<-c(8,6,2,11)
#combine both vectors b and c into a single vector to get required vector d
>    d<-c(b,c)
# create a matrix from vector d of order 3*3 using below command
>  e<-matrix(d,3,3)
```

Answer 3 :

```
 # we are given a vector a with few NA values present in it entered by command

>  a <-c(NA,11:15,NA,NA)

# we need to omit or remove all the NA from the vector  a

#we use the command na.omit(a) and save the result in  vector f which contains no NA
values in it but all the numbers

>  f<-c(na.omit(a))

# now finding meanof vector f which is without NA values using the below command

>  mean(f)
```

Answer 4:

```
 # there is a vector x which already contains the  3  strings stored in it using the
R command

>    x=c("apple","banana","grape")

# we need to replace the first occurrence of  'a' in the vector x  with '$' sign

# n vector represents a vector in which the first occurrence of 'a'  i.e in apple is
replaced by '$'  sign  using the below command

>    n<-c(sub("a","$",x)

# m vector represents a vector in which the first occurrence of 'a'  is replaced by
'$'  sign in the strings stored in  vector x ,using the below command

> m<-c(sub("ap","$p",x)
```