

Name: Suyash Kumar Sherwal  
Roll No : 102003067  
Class : CO1

Q1.

The screenshot displays the RStudio interface with the following components:

- Script Editor:** Contains three lines of R code:

```
1 x <- c(0,1,2,3,4)
2 p <- c(0.41,0.37,0.16,0.05,0.01)
3 sum(x*p)
```
- Environment Pane:** Shows the 'Global Environment' with two objects:

Object	Class	Value
p	num [1:5]	0.41 0.37 0.16 0.05 0.01
x	num [1:5]	0 1 2 3 4
- Console:** Shows the execution of the script, resulting in the output:

```
> source("~/Desktop/Assingment_1.R")
> sum(x*p)
[1] 0.88
> |
```

Q2.

The RStudio interface displays a script named 'Assingment\_1.R' with the following code:

```
1 x <- c(0,1,2,3)
2 p <- c(0.1,0.2,0.2,0.5)
3 b <- sum(x*p)
4 a <- 12*b + 2*(3-b) - 18
5 print(a)
```

The console shows the execution of the script, resulting in the output:

```
[1] 9
```

The Environment pane shows the following values:

Variable	Value
a	9
b	2.1
p	num [1:4] 0.1 0.2 0.2 0.5
x	num [1:4] 0 1 2 3

Q3.

The RStudio interface displays a script named 'Assingment\_1.R' with the following code:

```
1 x <- c(0,1,2,3)
2 p <- c(0.1,0.2,0.2,0.5)
3 b <- sum(x*p)
4 a <- 12*b + 2*(3-b) - 18
5 print(a)
```

The console shows the execution of the script, resulting in the output:

```
[1] 9
```

The Environment pane shows the following values:

Variable	Value
a	9
b	2.1
p	num [1:4] 0.1 0.2 0.2 0.5
x	num [1:4] 0 1 2 3

Q4.

