R Programming – Part 1(16 to 20)

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16. WAP to replace particular character

string1 = "BVM Engineering college, Vallabh Vidyanagar"

print(string1)

chartr('e','E',string1)

print(string1)

Output:

[1] "BVM Engineering college, Vallabh Vidyanagar"

17. Create two vectors and perform different operations on them

v1 = 1:10

v2 = c(2, 6);

result = v1 + v2 #it will treat v2 as same length of v1 by cyclicly considering it's elements

print(result)

print(v2)

print(sort(v1))

Output:

```
> print(result)
 [1]  3  8  5 10  7 12  9 14 11 16
> print(v2)
[1] 2 6
> print(sort(v1))
 [1]  1  2  3  4  5  6  7  8  9 10
```

18. WAP to generate sequence

```
print(seq(1.0, 2.0, by=0.2))
print(seq(10, 6, by=-0.5))
print(seq(-1, -5, by=-1))
```

Output:

```
> print(seq(1.0, 2.0, by=0.2))
[1] 1.0 1.2 1.4 1.6 1.8 2.0
> print(seq(10, 6, by=-0.5))
[1] 10.0  9.5  9.0  8.5  8.0  7.5  7.0  6.5  6.0
> print(seq(-1, -5, by=-1))
[1] -1 -2 -3 -4 -5
```

19. WAP to sort a vector

```
v1 = c(7, 4, 6, 9, 1, 4, 8);

n = 7

for (i in 1:(n-1)) {

  for (j in 1:(n-i)) {

    if(v1[j] > v1[j+1]) {

      temp <- v1[j]

      v1[j] <- v1[j+1]

      v1[j+1] <- temp

    }

  }
```

```
}
print((v1))
```

Output:

```
> print((v1))
[1] 1 4 4 6 7 8 9
```

20. Create two lists and merege them and then print particular element of the list

```
# craete ansd merger twoo list
# display particular elements

list1 = c("apple","banana","watermelon","guava")
print(list1)
list2 = c(10,20,30,50)
print(list2)
merged.list = c(list1,list2)

print(merged.list)
```

Output:

```
> print(list1)
[1] "apple"    "banana"    "watermelon" "guava"
> list2 = c(10,20,30,50)
> print(list2)
[1] 10 20 30 50
> merged.list = c(list1,list2)
>
> print(merged.list)
[1] "apple"    "banana"    "watermelon" "guava"    "10"
[6] "20"        "30"        "50"
```