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Shreetha School of Engineering + 3
                      class test-3
   ITA04 - Statistics With R programming
1, Program to perform the operations with the data.
  a, Create data frame.
   b, Extract
              score and attempts column by their
   positions.
   c) Extract name and quality column by their
   positions.
   d, To extract 3rd & 5th rows with 1st & 3rd
   columns.
   e, To extract 'James' details.
    Code:
    exam_data L- data frame (name = c('Anastasia', 'Dèma', 'katherène',
     'James', 'Emily', 'Michael', 'Matthew', 'Laura'),
        score = c(15.9, 9, 16.5, 12,9, 20, 14.5, 13.5), attempts=
         c(1,3,2,3,2,3,1,1), qualify: c('Yes', 'No', Yes', 'no', ho',
```

Sore-columniteram-datasscore.

attempts_column <- exam_data\$attempts

name_column 1-exam_data ["name"]

qualify_column = exam_data [, "qualify"] subset_data L-exam_data (c (3,5), ((1,3))

james_details 1-exam_data (exam_data & name = = "James",

```
Print (exam_data)
print (score_column)
print (name_column)
Print (qualify - column)
prient (subset data)
Print (james details)
Output:
name score attempts qualify.
                         Yes
Anaslasia 185
Dima
        9.0
                         no
Katherine
        16.5
                2 yes
James
        12.0
                  3
                        no
Emily 9.0
                         no
Michael 200
                  3
                         Yes
 Matthew 14.5
 Laura. 135
                         Yes
                         no.
 12.5 9.0 16.5 12.0 9.0 20.0 14.5 13.5
 1 3 2
          3 2 3 11
 Yes no yes no no yes yes no.
 katherine 2
  Emily
James
        12
             3
              no.
```

```
Create Dataframe for the data.
 i, R code to melt the data & display as a long
 format dala?
 i, R code to use cost function appropriately to
compute the average of x & y with respect to "time".
n/-c(1,1,2,2)
time L-C(1,2,1,2)
×1-c(6,3,2,5)
42-c (1,4,6,9)
data c-data frame (n, time, x,x)
melted-data 1-melt (data, id.vars=c("n", "time"))
cast_data (-dcast (melted_data, time, vaviable, man)
print (melted data)
print (cost_dafa).
Output:
  time x y
            3
       2
            5
    time variable value.
5
```

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