

## Probability and Statistics (IT302) Lab Program -1 for Reg. No 181IT102 - 181IT154

Use any one of the programming language C/python/java/C++ to compute Sample Space S consisting of all points in the **first** quadrant inside a circle of radius 'r' with center at the origin. Program should consider only three-digit positive value of 'r' during run-time. Display all computed sample points on the terminal and also store the same on separate output file. Program should be terminated by displaying an error message onto the terminal for invalid input and also same should be stored on separate output file as similar valid test case.

### Sample Text Cases

- $r=34$
- $r=-100$
- $r=\$ ($

Email subject should be PAS(IT302)-Lab-Program-1-Related-Files

File name of the program : RegisterNo\_IT302\_P1  
(P1 indicates Lab Program Number-1)

File name of the screenshot : RegisterNo\_IT302\_P1\_TCS1

(TCS1 indicates screenshot for the first test case, similarly, for other test cases TCS2, TCS3, TCS4, TC5, TC6)

File name of the Output File : RegisterNo\_IT302\_P1\_Output\_TC1.txt

(TC1 indicates output for the first test case, similarly, for other test cases TC2, TC3, TC4, TC5, TC6)

Date of Online Laboratory : 10<sup>th</sup> August 2020, Monday

Deadline of Submission : 10<sup>th</sup> August 2020, Monday (on or before 6:00PM)

Submit program file, all screenshots and all output files (output.txt) to the Email ID which will be circulated with the text case file before the deadline.

### Note:

- Clarify the doubt(s) (if any) during 10<sup>th</sup> August 2020 Monday online class hrs.
- No/Zero marks for incomplete submission/late submission/incomplete program.

## **Probability and Statistics (IT302) Lab Program -1 for Reg. No 181IT201 - 181IT254**

Use any one of the programming language C/python/java/C++ to compute Sample Space S consisting of all points in the **second** quadrant inside a circle of radius 'r' with center at the origin. Program should consider only positive value of 'r' between 75-85 during run-time. Display all computed sample points on the terminal and also store the same on separate output file. Program should be terminated by displaying an error message onto the terminal for invalid input and also same should be stored on separate output file as similar valid test case.

### **Sample Text Cases**

- $r = 74$
- $r = -74$
- $r = \$ \%$

Email subject should be PAS(IT302)-Lab-Program-1-Related-Files

File name of the program : RegisterNo\_IT302\_P1  
(P1 indicates Lab Program Number-1)

File name of the screenshot : RegisterNo\_IT302\_P1\_TCS1  
(TCS1 indicates screenshot for the first test case, similarly, for other test cases TCS2, TCS3, TCS4, TC5, TC6)

File name of the Output File : RegisterNo\_IT302\_P1\_Output\_TC1.txt  
(TC1 indicates output for the first test case, similarly, for other test cases TC2, TC3, TC4, TC5, TC6)

Date of Online Laboratory : 10<sup>th</sup> August 2020, Monday

Deadline of Submission : 10<sup>th</sup> August 2020, Monday (on or before 6:00PM)

Submit program file, all screenshots and all output files (output.txt) to the Email ID which will be circulated with the text case file before the deadline.

### **Note:**

- Clarify the doubt(s) (if any) during 10<sup>th</sup> August 2020 Monday online class hrs.
- No/Zero marks for incomplete submission/late submission/incomplete program.