## LAB 05 (Selection/ Repetition)



Lab is based on last week lectures and Lecture 9 related to repetition. If you face any problem ask TA, if they suggest you may advance to next problem, but with their advice only.

Task 1: Generate a card from deck at random. Assign a string code of 2 or 3 characters to card. First one or two characters will represent card no as cards has numbers $2,3,4, . ., 10, \mathrm{~J}, \mathrm{Q}, \mathrm{K}, \mathrm{A}$ and next character will show type that is D, H, C, S respectively for "Diamond", "Heart", "Club" and "Spade". Your code is:

- "4D", 4 of Diamond
- "KS", King of Spade
- " $10 \mathrm{H} ", 10$ of Heart

Task 2: Generate an MIT student's ID randomly. Student may belong to 2011 or 2012. Student may have section morning or afternoon. Student roll no may vary from 1 to 50 . Generate 3 random numbers one for year, second for section and third for roll no. Using selection concatenate them to generate combined ID as you have allotted. Finally print ID.

Next tasks are related to Repetition, therefore, every task required loop
Task 3: Print first 50 odd numbers i.e. 1 to 99

Task 4: Generate 10 random numbers in range 1 to 100 ?

Task 5: Generate 10 capital alphabets randomly?

Task 6: Print 20 starts in a row, followed by 20 starts in column
Hint: Use two independent loops, each loop may have same or different controlling variable

Task 7: Print checker board like given on right hand side.
Hint: Use 2 print statements inside loop.


Task 8: Extend Task 1 and Task 2 to generate 10 outputs of same?

