**QUESTIONS ON BASICS OF C – 01**

1. We'll say a number is special if it is a multiple of 11 or if it is one more than a multiple of 11. Print “SPECIAL” if the given non-negative number is special. Use the % "mod" operator.
2. Consider a character input from a user and print if it is a vowel or consonant.
3. The entire area of a circular garden is to be covered with grass by a Gardener. The radius of the garden is given by the user input. Calculate the area that has to be covered.
4. Take a 6-digit number as input from the user and reverse the number. Make sure that the number does not include a ‘0’ in any of its digits.
5. 5 balls are numbered with random 1-digit number each. Assign these numbers using user input. Print whether each ball is assigned odd or even number.
6. Students with roll numbers 1-9 are seated in ascending order in an examination hall. There has been a slight mistake in their seating arrangement where two consecutive roll numbers have been swapped. Choose these two consecutive numbers as per your choice and swap them back in their right places according to ascending order.
7. Find whether a given 10-digit number is palindrome or not. (HINT: Any number is said to be a palindrome if the original number and the reverse of the original number are the same.)
8. Consider a character input and find its ASCII value.
9. Implement basic logic gates using C (AND, OR, NOT). Consider the inputs: 0,0

0,1

1,0

1,1.

1. Consider the weights of three people as user input. Find the heaviest among them and print it.