**Assignments Based on Simple Programs**

1. Program to calculate the area and perimeter of the circle and volume of the sphere
   1. Area of the circle = πr2
   2. Perimeter of the circle = 2πr
   3. Volume of the sphere = 4/3 π r³
2. Create a program to assign Student name, enrolment number and 3 marks say mk1, mk2 and mk3 and calculate total and average. Find out the result (PASS or FAIL) and grade of the student based on the following conditions
   1. The student got equal to or above 40 in every subject mark, his result is PASS else FAIL [mk1 >= 40 && mk2>=40 && mk3>=40)
   2. If the result is PASS, calculate grade, otherwise grade is NIL
   3. If the average is above 90, grade is S
   4. If the average is above 80, grade is A
   5. If the average is above 70, grade is B
   6. If the average is above 60, grade is C
   7. If the average is equal to above 40, grade is D
   8. Else grade is F

Print all the details in a neat form.

1. Write a program to check the given number is Odd or Even. [If the number is divisible by 2, then Even, else Odd and check whether the number is divisible by 5
2. Write a program to assign candidate name, gender and score in percentage and check the following conditions for their appointments.

The gender of the candidate is male and he scores above than 85%, the person is appointed for the office work and the score is lesser than or equal to 85% he is appointed for the site work. The gender of the candidate is female and she scores above than 60%, the person is appointed for the office work and the score is lesser than or equal to 60% she is appointed for the site work, otherwise the person will not get appointment.

Note : Gender is a char datatype, it takes M/m to indicate male and F/f to indicate female, other than that invalid. Use switch case statement to check this condition.

1. Write a program to print all the numbers divisible by 3 and 7 between 50 to 100 using while loop
2. Write a program to find the sum of all the numbers from 1 to 25 using do wile loop
3. Write a program to print the following in the neat form using nested for loop

1 2 3 4 5

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Note : Gender is a char datatype, it takes M/m to indicate male and F/f to indicate female, other than that invalid. **Use ternary operator to check this condition.**

1. Write a program to **use all the BITWISE Operators** and get the result and write the **manual calculations for the same** for the verification of the output.
2. Write the program to print the following pattern **using nested loop.**

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