

Practical 3 (Repetition)

1. What is the output of the following C++ code?

```
int i = 0;
int temp = 1;
while (i < 5)
{
    i = i + 1;
    temp = temp * i;
}
cout << "i = " << i << " and temp = " << temp << endl;
```

2. What is the output of the following C++ code?

```
int count = 10;
double sum = 0;
while (count > 8)
{
    sum = sum + pow(count, 2.0);
    count--;
}
cout << sum << endl;
```

3. Write a program that reads a set of integers and then finds and prints the sum of the even and odd integers.

output

```
enter the number of integers: 5
enter your integer value:1
enter your integer value:3
enter your integer value:6
enter your integer value:8
enter your integer value:10
odd: 4
even:24
```

4. Write a program to compute and display the sum of a collection of resistors connected in series(+). The resistors value entered by the user until a value of 0 is entered. The program should end by displaying the sum of resistor value when 0 is entered.

Output: Enter the value of resistors: 1
 Enter the value of resistors: 3
 Enter the value of resistors: 5
 Enter the value of resistors: 7.8
 Enter the value of resistors: 1.2
 Enter the value of resistors: 0
 Sum of resistors value are: 18

5. Write a **do-while** loop that repeatedly prompts for and intakes input until a negative value is entered. The program will end and display the average of the values entered once a negative value is entered.

Output: Please enter your number : 3
 Please enter your number: 5
 Please enter your number: -1
 The average value for number entered is: 4