

CSE Assignment (C++)

Problem 1

Question:

Program: to display "SASTRA UNIVERSITY shines"

Code:

```
#include <iostream>

using namespace std;

int main()
{
    cout << left << "SASTRA UNIVERSITY shines" << endl;

    return 0;
}
```

Output:

```
SASTRA UNIVERSITY shines
```

Problem 2

Question:

Program :to check whether the given value is in a range or not.

Code:

```
#include <iostream>

using namespace std;

int main()
{
    int mincap, maxcap, inp;

    cout << left << "Enter the minimum cap : ";
    cin >> mincap;

    cout << left << "Enter the maximum cap : ";
    cin >> maxcap;

    cout << left << "Enter a value : ";
    cin >> inp;
```

```

    if (inp >= mincap && inp <= maxcap)
    {
        cout << left << "The given value is inside the range" << endl;
    }
    else
    {
        cout << left << "The given value is not inside the range" << endl;
    }

    return 0;
}

```

Output:

```

Enter the minimum cap : 25
Enter the maximum cap : 50
Enter a value : 22
The given value is not inside the range

```

```

Enter the minimum cap : 25
Enter the maximum cap : 50
Enter a value : 26
The given value is inside the range

```

Problem 3

Question:

Program: to find Sum of 'N' numbers

Code:

```

#include <iostream>
#include <iomanip>

using namespace std;

int main()
{
    int n;

    cout << left << "Enter 'n' : ";
    cin >> n;

    cout << left << "The sum of 'n' numbers is : " << \
        setw(10) << right << (n * (n + 1) / 2) << endl;

    return 0;
}

```

Output:

```
Enter 'n' : 24
The sum of 'n' numbers is :      300
```

Problem 4

Question:

Program: to check eligibility for voting and getting choice from user to continue or discontinue

Code:

```
#include <iostream>

using namespace std;

int main()
{
    int choice = 0;

    do
    {
        int age;

        cout << left << "Enter your age : ";
        cin >> age;

        if (age >= 18)
        {
            cout << left << "You are eligible for voting" << endl;
        }
        else
        {
            cout << left << "You are not eligible for voting" << endl;
        }

        cout << left << "Enter 1 to continue / Enter any other value to exit ";
        cin >> choice;
    }while(choice == 1);

    return 0;
}
```

Output

```
Enter your age : 18
You are eligible for voting
Enter 1 to continue / Enter any other value to exit 1
```

```
Enter your age : 14
You are not eligible for voting
Enter 1 to continue / Enter any other value to exit 9
```

Problem 5

Question:

Program: to check whether given number is ODD or EVEN

Code:

```
#include <iostream>

using namespace std;

int main()
{
    int num;

    cout << left << "Enter a number : ";
    cin >> num;

    if (num % 2 == 0)
    {
        cout << left << "The entered number is even" << endl;
    }
    else
    {
        cout << left << "The entered number is odd" << endl;
    }

    return 0;
}
```

Output:

```
Enter a number : 3
The entered number is odd
```

```
Enter a number : 6
The entered number is even
```
