1) Reverse the number using do.. while loop:

```
#include <iostream>
#include <vector>
class Solution {
public:
  static std::vector<int> reverseNumber(int n) {
     std::vector<int> result;
     int reversed = 0;
     do
      reversed=reversed*10+(n%10);
      n=10;
     result.push_back(reversed);
     return result;
  }while(n>0);
};
int main() {
  int n = 1234;
  std::vector<int> result = Solution::reverseNumber(n);
```

```
std::cout << "Reversed number: " << result[0] << std::endl;</pre>
        return 0;
2) Multiplication using for loop:
     #include <iostream>
     #include <vector>
     class Solution {
     public:
        static std::vector<int> printMultiplicationTable(int n) {
           std::vector<int> result;
           for(int i=1;i<=10;i++)
           {
             result.push_back(n*i);
           }
           return result;
     };
     int main() {
        int n = 5;
        std::vector<int> result = Solution::printMultiplicationTable(n);
```

```
std::cout << "Multiplication table of " << n << ":" << std::endl;
        for (int i = 0; i < result.size(); ++i) {
           std::cout << n << " x " << i + 1 << " = " << result[i] <<
           std::endl;
        }
        return 0;
      }
3)Unique Elements in the given arrays using do..while loop.
     #include <iostream>
     #include <vector>
     class Solution {
     public:
        static std::vector<int> printUniqueElements(int arr[], int n) {
           std::vector<int> result;
          int i=0,j,count;
          do
           {
             j=0;
             count=0;
             do
             {
```

```
if(arr[i]==arr[j]) count++;
          j++;
        }while(j<n);</pre>
        if(count==n)
        {
             result.push_back(-1);
             return result;
        }
        if(count==1) result.push_back(arr[i]);
        i++;
     }while(i<n);</pre>
     return result;
   }
};
int main() {
  int arr[] = \{4, 5, 6, 7, 4, 5, 9, 10, 6\};
  int n = sizeof(arr) / sizeof(arr[0]);
  std::vector<int> result = Solution::printUniqueElements(arr, n);
  std::cout << "Unique elements: ";</pre>
  for (int elem : result) {
     std::cout << elem << " ";
```

```
}
std::cout << std::endl;
return 0;
}</pre>
```

4) Find the given number is prime if prime means add the digit if not return -1 using do.. while loop.

```
#include <iostream>
#include <vector>
class Solution {
public:
  static std::vector<int> sumIfPrime(int n) {
     std::vector<int> result;
     int sum = 0,i=2,count=0;
     do
       if(n%i==0) count++;
       i++;
     \}while(i<n/2);
     if(count==0)
       do
```

```
sum+=n%10;
          n/=10;
        }while(n>0);
     }
     else sum=-1;
     result.push_back(sum);
     return result;
  }
};
int main() {
  int n = 1231;
  std::vector<int> result = Solution::sumIfPrime(n);
  std::cout << "Result: " << result[0] << std::endl;</pre>
  return 0;
}
```