```
1. Write a c++ program to find the given number is odd or even
        #include <iostream>
        using namespace std;
        int main()
          int n;
          cout << "Enter an integer: ";</pre>
          cin >> n;
          if ( n % 2 == 0)
            cout << "Input number " << n << " is even ";</pre>
          else
            cout << "Input number" << n << " is odd ";
          return 0;
        }
2. print numbers from 100 to 0 in reverse that are divisible by 3 \,
Without divisible by 3
#include <iostream>
using namespace std;
void PrintReverseOrder(int N)
        for (int i = N; i >= 0; i--)
                cout << i << " ";
int main()
```

{

}

```
{
        int N = 100;
        PrintReverseOrder(N);
        return 0;
}
with reverse divisibl by 3: -
#include <iostream>
using namespace std;
void result(int N)
{
        for (int num = N; num >=0; --num)
       {
                if (num % 3 == 0)
                       cout << num << " ";
       }
}
int main()
{
```

```
int N=0;
  cout<<"Enter the number: ";
        cin>>N;
        result(N);
        return 0;
}
    3. Get a string input (DNA) from user and print in reverse
        #include <bits/stdc++.h>
        using namespace std;
       void reverse(string str)
                if(str.size() == 0)
                {
                        return;
                reverse(str.substr(1));
                cout << str[0];
       }
        int main()
        {
                string a = "ATGCCCGATTTAAA";
                reverse(a);
                return 0;
        }
    4. Write a c++ program to add two matrices. (Variation : Ask the usere for size of matrix and get
        elements from user)
        #include <iostream>
        using namespace std;
        int main()
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int a[100],b[100],n,sum[100];
      cout<<"Enter size of the matrices: ";
      cin>>n;
      cout<<"Enter matrix A: ";
      for(int i=0;i<n;i++)
        cin>>a[i];
      cout<<"Enter matrix B: ";
      for(int i=0;i<n;i++)
      {
        cin>>b[i];
      }
      for(int i=0;i<n;i++)
      {
        sum[i]=a[i]+b[i];
      cout<<"Sum of matrices A and B is: ";
      for(int i=0;i<n;i++)
      {
        cout<<sum[i];
        cout<<"\n";
      }
      return 0;
5. Using switch create a program that perform desired arithmetic operations of two numbers(user
    input)
    #include <iostream>
    using namespace std;
   int main() {
      char op;
      float num1, num2;
      cout << "Enter an arithemetic operator(+ - * /): ";</pre>
```

```
cin >> op;
      cout <<"Enter 1st numbers=";
      cin >> num1;
      cout<<"Enter 2nd number= ";
      cin>> num2;
      switch(op) {
        case '+':
            cout<<"Addition of two number: " << num1 << " + " << num2 << " = " << num1+num2;
            break;
        case '-':
            cout <<"Subtraction of two number: "<< num1 << " - " << num2 << " = " <<
    num1+num2;
            break;
        case '*':
            cout << "Multiplication of two number: " << num1 << " * " << num2 << " = " <<
    num1*num2;
            break;
        case '/':
            cout << "Divide of two number: " << num1 << " / " << num2 << " = " << num1/num2;
        default:
            printf("ERROR: Unsupported Operation");
      }
      return 0;
    }
6. Create a function that takes two variables and find the power. (Eg: 2&5 will be 2^5)
    #include <iostream>
    using namespace std;
    int main()
      int exponent;
      float base, result = 1;
      cout << "Enter base: ";</pre>
      cin >> base;
      cout << "Enter exponent: ";</pre>
      cin>> exponent;
```

```
while (exponent != 0) {
    result *= base;
    --exponent;
}

cout << "Power of given number= "<< result;
    return 0;
}</pre>
```