```
#include <iostream>
using namespace std;
int main()
{
  double * n = new(std :: nothrow) double ; // memory allocation
  double * n2 = new (std :: nothrow) double;
  char c;
  char q;
  cout << " Calculator"<<endl;</pre>
  do
  {
    cout << " you can use operations: +, -, *, /"<<endl;</pre>
  cin >> *n;
  cin >> c;
  cin >> *n2;
  if(cin.fail()) // if user input isn't digit
  {
    cout << "You should enter digits!."<<endl;</pre>
  }
  else if(c == '+')
  {
    cout<< "result is " << *n+*n2 << endl;
  }
  else if(c == '-')
```

```
{
  cout<< "result is " << *n-*n2 << endl;
}
else if(c == '*')
{
  cout<< "result is " << *n * *n2 << endl;
}
else if(c == '/')
{
  if(*n2 == 0) // in case of dividing by 0
  {
    cout << "SYNTAX ERROR"<< endl;</pre>
  }
  else
    cout<< "result is " << *n / *n2 << endl;
  }
}
cout << "Press any key to continue,to quit press q." << endl;</pre>
cin >> q;
 delete n; //clear
 delete n2;
}while(q != 'q');
```

```
return 0;
}
```