```
double Da = 5.7, Db = 2.2;
           bool flag = true;
           std::cout << "multiply(int, int) (first case): " << multiply</pre>
           std::cout << "multiply(double, double)(second case): " << m</pre>
           std::cout << "multiply(int, double, bool) (third case, round</pre>
           return 0;
PROBLEMS
          OUTPUT
                    DEBUG CONSOLE TERMINAL
                                             PORTS
                                                     COMMENTS
PS C:\Users\Papu\C plusplus25> & 'c:\Users\Papu\.vscode\extensions\ms-vsco
gine-In-wvr4mmmn.3rq' '--stdout=Microsoft-MIEngine-Out-ifd0jrvb.kib' '--std
=C:/msys64/ucrt64/bin/gdb.exe' '--interpreter=mi'
multiply(int, int) (first case): 72
multiply(double, double)(second case): 12.54
multiply(int, double, bool) (third case, rounded integer): 51
PS C:\Users\Papu\C plusplus25>
```

int Ia = 9, Ib = 8;

```
MIEngine-Error-mmkvb5a5.tx5' '--pid=Microsoft-MIEngine-Pid-qxo1wz
   lb.urv' '--dbgExe=C:/msys64/ucrt64/bin/gdb.exe' '--interpreter=mi
   Enter first floating point number (a): 1
   Enter second floating point number (b): 2
   First swap a = 2, b = 1
   After swap without pointers or references: a = 1, b = 2
   Pointer swap a = 2, b = 1
   After swap using pointers: a = 2, b = 1
   Reference swap a = 1, b = 2
   After swap using references: a = 1, b = 2
   PS C:\Users\Papu\C plusplus25>
\otimes 0 \triangle 0 \Longrightarrow C/C++ Runner: Debug Session (C plusplus25)
                                                   Spaces: 4
```

```
double calculate(double a, double b, char op) {
           switch (op) {
               case '+':
                   return a + b:
               case '-':
                   return a - b:
               case '*':
                   return a * b;
               case '/':
                   if (b != 0) {
                       return a / b:
PROBLEMS
          OUTPUT DEBUG CONSOLE
                                  TERMINAL
                                             PORTS
                                                     COMMENTS
PS C:\Users\Papu\C plusplus25> & 'c:\Users\Papu\.vscode\extensions\ms-
gine-In-mfegvs2c.hqz' '--stdout=Microsoft-MIEngine-Out-fcqa3kjh.kdl' '-
=C:/msys64/ucrt64/bin/gdb.exe' '--interpreter=mi'
Enter first number: 7
Enter second number: 9
Enter operator (+, -, *, /): *
Result: 63
PS C:\Users\Papu\C plusplus25> ^C
PS C:\Users\Papu\C plusplus25>
PS C:\Users\Papu\C plusplus25> & 'c:\Users\Papu\.vscode\extensions\ms-
gine-In-ko42o4cr.2bq''--stdout=Microsoft-MIEngine-Out-hidfrk2n.zim''-
=C:/msys64/ucrt64/bin/gdb.exe' '--interpreter=mi'
Enter first number: 9
Enter second number: 10
Enter operator (+, -, *, /): +
Result: 19
PS C:\Users\Papu\C plusplus25>
```

```
gine-In-0vvxerq5.btw' '--stdout=Microsoft-MIEngine-Out-2y100btm.puu' '--stde
=C:/msys64/ucrt64/bin/gdb.exe' '--interpreter=mi'
Positive number gets squared negative stops the program and 0 gets ignored
Input number: 8
Square of 8 is 64
Input number: 2
Square of 2 is 4
Input number: 0
Input number: 1
Square of 1 is 1
Input number: -2
Program ended because of a negative input
PS C:\Users\Papu\C plusplus25>
```

PS C:\Users\Papu\C plusplus25> & 'c:\Users\Papu\.vscode\extensions\ms-vscode

```
for (int i=0;i<SIZE;i++) {
               RevArr[SIZE-1-i]=*ptr+i;}
       cout<<"Check original array: ";</pre>
           for(int i=0; i<SIZE; i++){</pre>
           cout<<OrigArr[i]<<" ";}</pre>
           cout<<endl;</pre>
       cout<<"Check reversed array: ";
           for(int i=0; i<SIZE; i++){</pre>
           cout<<RevArr[i]<<" ";}</pre>
           cout<<endl:
           return 0;
PROBLEMS
           OUTPUT
                    DEBUG CONSOLE
                                    TERMINAL
                                               PORTS
                                                       CON
PS C:\Users\Papu\C plusplus25> & 'c:\Users\Papu\.vscode
gine-In-@qkvrejm.2ul' '--stdout=Microsoft-MIEngine-Out-j
=C:/msys64/ucrt64/bin/gdb.exe' '--interpreter=mi'
Check original array: 1 2 3 4 5 6 7 8
Check reversed array: 8 7 6 5 4 3 2 1
PS C:\Users\Papu\C plusplus25> ^C
PS C:\Users\Papu\C plusplus25>
PS C:\Users\Papu\C plusplus25> & 'c:\Users\Papu\.vscode
gine-In-ncnq2xyv.21r' '--stdout=Microsoft-MIEngine-Out-2
=C:/msys64/ucrt64/bin/gdb.exe' '--interpreter=mi'
Check original array: 18 19 20 21 22 23 24 25
Check reversed array: 25 24 23 22 21 20 19 18
PS C:\Users\Papu\C plusplus25> ||
```

72

```
2) Display all students
3) Search for a student by ID
4) Exit the program
Enter option: 1
Enter student name: Dan
Enter student ID: 96
Enter student grade: 4
Choose an option:
1) Add a student
2) Display all students
3) Search for a student by ID
4) Exit the program
Enter option: 2
List of students:
Name: Max, ID: 88, Grade: 4.2
Name: Dan, ID: 96, Grade: 4
Choose an option:
1) Add a student
2) Display all students
3) Search for a student by ID
4) Exit the program
Enter option: 3
Enter student ID to search: 96
Student info -- Name: Dan, ID: 96, Grade: 4
```

Choose an option:
1) Add a student

Enter option: 1

Choose an option:
1) Add a student

2) Display all students

4) Exit the program

Enter student name: Max
Enter student ID: 88
Enter student grade: 4.2

3) Search for a student by ID

```
Choose an option:
 1) Add a student
2) Display all students
3) Search for a student by ID
4) Exit the program
Enter option: 0
Error, not a valid operator
Choose an option:

 Add a student
```

2) Display all students
3) Search for a student by ID
4) Exit the program
Enter option: 4
Exiting the program.
PS C:\Users\Papu\C_plusplus25> []

```
Initial addresses of p1: 0x7ff707643000
and p2: 0x7ff707643000
Initial values of p1: 123
and p2: 123
After changing value with p1 -> addresses p1: 0x7ff707643000
and p2: 0x7ff707643000
After changing p1-> value of p1: 234
and p2: 234
After changing value with p2 -> addresses p1: 0x7ff707643000
and p2: 0x7ff707643000
After changing p2-> value of p1: 345
and p2: 345
```

Exe or may so y der co y bir gabrexe inter precer mix

```
Before changing refA: a = 100
```

C:/MSVS64/UCTT64/D1N/gab.exe

After changing refA: a = 30
PS C:\Users\Papu\C plusplus25>