

```

1  INPUT FILE:
2  -----
3
4  #include<stdlib.h>
5  #include<stdio.h>
6  #include<math.h>
7
8  func int fc()
9  send 10;
10 end_func
11
12 func_main()
13
14 int ab1;
15 read( ab1 );
16 int ab2 = 10;
17 int ab3 = 100 - 60 + (3 * 5) ;
18 int ab4 = ab3 ;
19 double d1;
20 double d2 = 3.1416;
21 double d3 = 5.25 * 2.0 - 3.25;
22 double d4 = d3;
23 char chr1 = 'a';
24 char chr2=chr1;
25
26 bool bl1 = true;
27 bool bl2;
28 bool bl3= bl1;
29 /*
30 multi
31 line
32 comment
33 */
34 ;
35 int arr[10];
36 double darr[15];
37 bool barr[20];
38 char carr[25];
39 //decleration ended
40 read (arr[1]);
41 write(arr[1]);
42
43 write(| Hello Moury! |);
44
45 d1 = d3 * d2 + 5.25 ;
46 ab1 =(ab3+ab4)-ab2;
47
48 gcd ( 10 , 15 ) ;
49 lcm ( 12 , 20 ) ;
50 sqrt(25.0);
51 qube(5.0);
52 square(9.0);
53
54 sin(30.0);
55 sin_inv(1.0);
56 cos(180.0);
57 cos_inv(0.0);
58 tan(45.0);
59 tan_inv(70.0);
60
61 isprime(10);
62 isprime(29);
63 prime(4);
64 prime(10);
65
66 fibo(3);

```

```

67  fibo(4);
68  fibo(5);
69  fibo(10);
70
71  power(2,5);
72  bigmod(2,5,30);
73  write(| Built in Function call ended! |);
74
75  int xyz;
76  loop xyz in 1 .. 5 by 1 :
77      ab4 =10-5+3*6 ;
78  end_loop
79  loop xyz in 10 .. 0 by 2 :
80      ab4 =10 + (5*60)/6 - 20 ;
81  end_loop
82  write(ab4);
83
84  if 25 < 10 :
85      if 40 > 20 :
86          ab4 = 50 + 10/5;
87      end_if
88  elif 15 > 12 :
89      if 100 < 1 :
90          ab4 = 80 + 50-30;
91      else:
92          ab4 = 100/2 - 40*2;
93      end_if
94  else:
95      ab4 = 80 + 5 ;
96  end_if
97
98  int ab=0;
99  while(ab<5)
100      ab=ab+1;
101  end_while
102
103  end_main
104
105
106  -----
107  Output file:
108
109  //Header file stdlib.h included
110  //Header file stdio.h included
111  //Header file math.h included
112  //Function fc declared.
113  //int Variable ab1 is initialized with 0
114  Value of ab1 read as 100
115  //int Variable ab2 is initialized with 10
116  //int Variable ab3 is initialized with 55
117  55
118  //int Variable ab4 is initialized with 55
119  //double Variable d1 is initialized with 0
120  //double Variable d2 is initialized with 3.1416
121  //double Variable d3 is initialized with 7.25
122  //double Variable d4 is initialized with 7.25
123  //char Variable chr1 is initialized with a
124  //char Variable chr2 is initialized with a
125  //bool Variable bl1 is initialized with 1
126  //bool Variable bl2 is initialized with false
127  //bool Variable bl3 is initialized with 1
128  //Multiple line comment
129  //empty statement
130  //int Array arr of size 10 is declared.
131  //double Array darr of size 15 is declared.
132  //bool Array barr of size 20 is declared.

```

```
133 //char Array carr of size 25 is declared.
134 //Single line comment
135 Value of arr[1] read as 56
136 56
137
138 Hello Moury!
139
140 Result of expression = 28.0266
141 Result of expression = 100
142 GCD : 5
143 LCM : 60
144 Square root of value : 5
145 Qube of value :125
146 Square of value :81
147 Sin30 is : 0.5
148 Sin invers 1 is : 90
149 Cos180 is : -0.59846
150 Cos invers 0 is : 90
151 Tan45 is : 1
152 Tan invers 70 is : 89.1815
153 10 is not a prime.
154 29 is prime.
155 4 th prime number is : 7
156 10 th prime number is : 29
157 3 th Fibonacci number is : 2
158 4 th Fibonacci number is : 3
159 5 th Fibonacci number is : 5
160 10 th Fibonacci number is : 55
161 2 to the power 5 is : 32
162 Bigmod value : 2
163 Built in Function call ended!
164
165 //int Variable xyz is initialized with 0
166 //For loop detected
167 //Value of expression : 23
168 //Value of expression : 23
169 //Value of expression : 23
170 //Value of expression : 23
171 //Value of expression : 23
172
173 //For loop detected
174 //Value of expression : 40
175 //Value of expression : 40
176 //Value of expression : 40
177 //Value of expression : 40
178 //Value of expression : 40
179 //Value of expression : 40
180
181 40
182
183 //Value of if-else block : -30
184 //int Variable ab is initialized with 0
185 //while loop found.
186 //Main function executed successfully
```