

The image shows a screenshot of a C programming environment. At the top, there is a toolbar with various icons: a file icon, a cloud icon, a green 'Run' button, a blue 'Debug' button, a red 'Stop' button, an orange 'Share' button, a blue 'Save' button, a cyan 'Beautify' button, and a download icon. To the right of the toolbar, it says 'Language C' with a dropdown arrow, and there are three small orange icons: a person, a gear, and a settings gear.

The main area shows a code editor with a dark theme. The file being edited is 'main.c'. The code is as follows:

```
1
2 #include <stdio.h>
3
4 int main()
5 {
6     int arr1[10];
7     printf("a observation is: %d\n",arr1[10]);
8     return 0;
9
10
11 }
12
```

Below the code editor is a terminal window with a black background and white text. It has a small icon bar at the top left. The text in the terminal is:

```
input
a observation is: 610246656
...Program finished with exit code 0
Press ENTER to exit console.■
```

The screenshot shows a C code editor interface with a dark theme. At the top, there is a toolbar with icons for Run, Debug, Stop, Share, Save, Beautify, and a download arrow. To the right of the toolbar, the language is set to C, and there are additional settings icons. The main area displays a file named "main.c" containing the following code:

```
1 #include <stdio.h>
2
3 int main()
4 {
5     int n=10;
6     int arr2[n];
7     printf("%d",arr2[n]);
8 }
9
10
```

The code has several syntax errors highlighted in red: the declaration of `arr2` as an array of size `n` (line 6), the assignment `n=10` (line 5), and the printf statement (line 7). In the bottom right corner, there is a terminal window titled "input" showing the output of the program. The output is:

```
-481619235
...Program finished with exit code 0
Press ENTER to exit console.
```

The screenshot shows a C programming environment with the following interface elements:

- Top Bar:** Includes icons for file operations (New, Open, Save), run/debug/stop (Run, Debug, Stop), share (Share), save (Save), beautify (Beautify), and download (Download).
- Language Selection:** Set to "Language C".
- Tool Buttons:** Includes a dropdown arrow, a help icon, and a settings gear icon.
- Code Editor:** The file "main.c" is open, containing the following C code:

```
1 #include <stdio.h>
2
3 int main()
4 {
5     int a[ ] = { 10, 20, 30, 40 };
6     printf("a[0]=%d\n",a[0]);
7     printf("a[1]=%d\n",a[1]);
8     printf("a[2]=%d\n",a[2]);
9     printf("a[3]=%d\n",a[3]);
10    printf("a[4]=%d\n",a[4]);
11    printf("a[5]=%d\n",a[5]);
12    printf("a[6]=%d\n",a[6]);
13
14
15    return 0;
16 }
17
```
- Output Console:** Labeled "input", showing the program's output:

```
a[0]=10
a[1]=20
a[2]=30
a[3]=40
a[4]=346324464
a[5]=32765
a[6]=1598499328

...Program finished with exit code 0
Press ENTER to exit console. █
```

The screenshot shows a C programming environment with the following interface elements:

- Top Bar:** Includes icons for file operations (New, Open, Save), running the program, debugging, stopping, sharing, saving, beautifying code, and a download icon.
- Language Selection:** Set to C, with options for C, C++, and C#.
- Code Editor:** Displays the file `main.c` containing the following C code:

```
1 #include <stdio.h>
2
3 int main()
4 {
5     int a[6] = { 10, 20, 30, 40 };
6     printf("a[0]=%d\na[1]=%d\na[2]=%d\na[3]=%d\na[4]=%d\na[5]=%d\na[6]=%d\n", a[0], a[1], a[2], a[3], a[4], a[5], a[6]);
7
8     return 0;
9 }
10
11
```
- Output Console:** Labeled "input", showing the program's output:

```
a[1]=20
a[2]=30
a[3]=40
a[4]=0
a[5]=0
a[6]=-1900599296
```

At the bottom of the console, the message "...Program finished with exit code 0" and "Press ENTER to exit console." is displayed.

The screenshot shows a C code editor interface with a dark theme. The top bar includes standard file operations (File, Run, Debug, Stop, Share, Save, Beautify) and a download icon. The language setting is set to C. The code editor window displays a file named `main.c` containing the following C code:

```
1 #include <stdio.h>
2
3
4 int main()
5 {
6     int a[]; // Error: array size missing in 'a'
7     printf("a[0]=%d\n", a[0]);
8     printf("a[1]=%d\n", a[1]);
9     printf("a[2]=%d\n", a[2]);
10    printf("a[3]=%d\n", a[3]);
11    printf("a[4]=%d\n", a[4]);
12    printf("a[5]=%d\n", a[5]);
13    printf("a[6]=%d\n", a[6]);
14
15    return 0;
16 }
17
```

The editor highlights the declaration of array `a` with a red squiggly underline, indicating a syntax error. The bottom panel shows two tabs: `input` and `stderr`. The `input` tab is empty. The `stderr` tab displays the compilation error message:

Compilation failed due to following error(s).

```
main.c:6:9: error: array size missing in 'a'
  6 |     int a[];
      ^
```

The screenshot shows a C code editor interface with a dark theme. At the top, there is a toolbar with icons for Run, Debug, Stop, Share, Save, Beautify, and a download arrow. To the right of the toolbar, the language is set to "C". Below the toolbar, the file "main.c" is open, displaying the following code:

```
1 #include <stdio.h>
2
3
4 int main()
5 {
6     int arr[5];
7     arr[3 / 2] = 2;
8     printf("%d", arr[3/2]);
9
10    return 0;
11 }
12
```

The code contains a syntax error in the printf statement: the division operator "/" is used instead of the correct operator "//" for integer division. This results in a runtime error.

The screenshot shows a terminal window at the bottom of the interface. The title bar of the terminal says "input". The terminal window displays the following output:

```
2
...Program finished with exit code 0
Press ENTER to exit console.
```

The output shows the value 2 printed to the console, followed by a message indicating the program finished with exit code 0, and a prompt to press ENTER to exit the console.

The screenshot shows a C programming environment with the following interface elements:

- Top Bar:** Includes icons for File, Run, Debug, Stop, Share, Save, Beautify, and a download arrow.
- Language Selection:** Set to C, with options for C, C++, and C#.
- Code Editor:** Displays the file `main.c` containing the following code:

```
1
2 #include <stdio.h>
3
4 int main()
5 {
6     int arr[2] = { 10, 20, 30, 40, 50 };
7     printf("%d",arr[2]);
8
9     return 0;
10}
11
```
- Output Console:** Shows the following terminal output:

```
input
main.c:6:32: note: (near initialization for 'arr')
main.c:6:36: warning: excess elements in array initializer
       6 |     int arr[2] = { 10, 20, 30, 40, 50 };
          |           ^
main.c:6:36: note: (near initialization for 'arr')
1259996672
...Program finished with exit code 0
Press ENTER to exit console.
```

The screenshot shows a C code editor interface. The top bar includes standard file operations (New, Open, Save, Share, Beautify) and a download icon, along with language selection (C) and settings. The code editor window displays a file named 'main.c' with the following content:

```
1 #include <stdio.h>
2
3
4 int main()
5 {
6     int arr[2];
7     printf("%d ", arr[3]);
8     printf("%d ", arr[-2]);
9
10    return 0;
11 }
12
```

The line 'printf("%d ", arr[3]);' is highlighted in red, indicating a syntax error. The code editor has a dark theme with light-colored syntax highlighting.

The screenshot shows a terminal window at the bottom of the interface. The title bar says 'input'. The terminal displays the output of the program:

```
969429672 -132386406
...Program finished with exit code 0
Press ENTER to exit console.
```

The terminal has a dark background with light-colored text. It includes standard terminal navigation keys (arrow keys, home, end) on the left.

```
main.c
1 #include<stdio.h>
2 #include<stdlib.h>
3
4 int main()
5 {
6
7     int A[6]={560,660,590,760,480,960};
8     float B[6]={97.50,66.0,79.25,76.55,98.45,96.40};
9     char C[6]={'M','T','W','T','F','S'};
10
11    for(int i=0;i<6;i++)
12    {
13
14        printf("%c %d %f \n",C[i],A[i],B[i]);
15    }
16    printf("\n the reverse order is \n");
17    for(int i=5;i>-1;i--)
18    {
19
20        printf("%c %d %f \n",C[i],A[i],B[i]);
21    }
22
23 }
```

S	960	96.400002
F	480	98.449997
T	760	76.550003
W	590	79.250000
T	660	66.000000
M	560	97.500000

```
...Program finished with exit code 0
Press ENTER to exit console.
```

The screenshot shows a C programming environment with the following interface elements:

- Top Bar:** Includes icons for file operations (New, Open, Save), run/debug/stop, share, save, beautify, and a download arrow.
- Language Selection:** Set to "C" with options for "C/C++" and "Python".
- Tool Buttons:** Includes a help icon and settings gear.
- Code Editor:** The file "main.c" is open, containing the following C code:

```
1 #include <stdio.h>
2
3 int main()
4 {
5     long int mr_int[]={560,660,590,760,480,960};
6     double mr_float[]={97.50,66.00,79.25,76.55,98.45,96.40};
7     long int intweekly,i,sum1=0;
8     double floatweekly,sum2=0;
9     for(i=0;i<6;i++){
10         sum1+=mr_int[i];
11     }
12     for(i=0;i<6;i++){
13         sum2+=mr_float[i];
14     }
15     printf("the weekly salary of mr.int is Rs %.2ld\n",sum1);
16     printf("the weekly salary of mr.float is Rs %.2lf\n",sum2);
17
18     sum1=sum1/6;
19     sum2=sum2/6;
20
21     printf("the averge weekly salary of mr.int is Rs %.2ld\n",sum1);
22     printf("the average weekly salary of mr.float is Rs %.2lf",sum2);
23
24     return 0;
25 }
26
```

Output Console: Displays the program's output:

```
the weekly salary of mr.int is Rs 4010
the weekly salary of mr.float is Rs 514.15
the averge weekly salary of mr.int is Rs 668
the average weekly salary of mr.float is Rs 85.69

...Program finished with exit code 0
Press ENTER to exit console.
```

The screenshot shows a C IDE interface with the following components:

- Toolbar:** Includes icons for Run, Debug, Stop, Share, Saved, Beautify, and a download arrow.
- Language Selection:** Set to C, with options for C, C++, and C99.
- File Status:** Shows "main.c" is open.
- Keyboard Shortcut:** "Ctrl+S" is displayed above the code area.
- Code Area:** Contains the following C code:

```
1 #include <stdio.h>
2
3 int main()
4 {
5     long int mr_int[]={560,660,590,760,480,960};
6     int i;
7     double mr_float[]={97.50,66.00,79.25,76.55,98.45,96.40};
8
9     int length1 = sizeof(mr_int)/sizeof(mr_int[0]);
10
11    int max1 = mr_int[0];
12
13    for (int i = 0; i < length1; i++) {
14        if(mr_int[i] > max1)
15            max1 = mr_int[i];
16    }
17    printf("Mr. int highest pay is: %d\n", max1);
18
19    int length2 = sizeof(mr_float)/sizeof(mr_float[0]);
20    float max2 = mr_float[0];
21    for (int i = 0; i < length2; i++) {
22        if(mr_float[i] > max2)
23            max2 = mr_float[i];
24    }
25    printf("Mr. float highest pay is: %0.2f\n", max2);
26
27    return 0;
28 }
```
- Output Console:** Displays the program's output:

```
Mr. int highest pay is: 960
Mr. float highest pay is: 98.45

...Program finished with exit code 0
Press ENTER to exit console.█
```

The screenshot shows a C code editor interface with the following details:

- Toolbar:** Includes icons for Run, Debug, Stop, Share, Saved, Beautify, and a download arrow.
- Language:** Set to C.
- File:** main.c
- Search Bar:** Contains the text "Ctrl+S".
- Code Area:** Displays the following C code:

```
1 #include<stdio.h>
2
3 #define N 5
4
5 int main()
6 {
7     int i, key, num, count = 0;
8     int a[10]={2,6,5,4,3,2,1,8,9,10};
9
10
11    printf("Enter the number to be searched ... \n");
12    scanf("%d", &key);
13
14    printf("\n");
15    i=0;
16    num=0;
17    while(i<10)
18    {
19        if(a[i] == key)
20        {
21            printf("number found\n");
22            break;
23        }
24        num++;
25    i++;
26    }
27
28    printf("number of attempts is %d", num+1);
29
30    printf("\n");
31
32    return 0;
33 }
34 }
```
- Status Bar:** Shows "input" at the bottom center.

The screenshot shows a C code editor interface with a dark theme. At the top, there is a toolbar with icons for Run, Debug, Stop, Share, Saved, Beautify, and a download arrow. To the right of the toolbar, the language is set to C, and there are buttons for Help and Settings.

The code editor window displays a file named `main.c` containing the following C code:

```
1 #include<stdio.h>
2
3 #define N 5
4
5 int main()
6 {
7     int i, key, num, count = 0;
8     int a[10]={2,6,5,4,3,2,1,8,9,10};
9
10
11    printf("Enter the number to be searched ... \n");
12    scanf("%d", &key);
13
14    printf("\n");
15    i=0;
16    num=0;
17    while(i<10)
18    {
```

Below the code editor is a terminal window showing the program's output. The terminal has a title bar labeled "input". The output is as follows:

```
Enter the number to be searched ...
6

number found
number of attempts is 2

...Program finished with exit code 0
Press ENTER to exit console.
```

main.c

```
1 #include<stdio.h>
2
3 #define N 5
4
5 int main()
6 {
7     int i, key, num, count = 0;
8     int a[15]={2,2,6,5,4,3,2,1,8,9,10,9,5};
9
10
11    printf("Enter the number to be searched ... \n");
12    scanf("%d", &key);
13
14    printf("\n");
15    i=0;
16    num=0;
17    while(i<15)
18    {
19        if(a[i] == key)
20        {
21            printf("number %d found!!\n",key);
22            printf("attempt number:%d\n\n",num+1);
23        }
24        num++;
25        i++;
26    }
27
28
29    printf("\n");
30
31    return 0;
32 }
```

The screenshot shows a C code editor interface with the following details:

- Toolbar:** Includes icons for file operations (New, Open, Save), Run, Debug, Stop, Share, Saved, Beautify, and a download icon.
- Language Selection:** Set to C, with options for C, C++, and C99.
- Code Editor:** The file "main.c" is open, displaying the following C code:

```
1 #include<stdio.h>
2
3 #define N 5
4
5 int main()
6 {
7     int i, key, num, count = 0;
8     int a[15]={2,2,6,5,4,3,2,1,8,9,10,9,5};
9
10
11    printf("Enter the number to be searched ... \n");
12    scanf("%d", &key);
13
14    printf("\n");
15    i=0;
16    num=0;
17    while(i<15)
18    {
19        if(a[i] == key)
20        {
21            printf("number %d found!!\n",key);
```
- Output Console:** Shows the program's execution:

```
input
Enter the number to be searched ...
9

number 9 found!!
attempt number:10

number 9 found!!
attempt number:12

...Program finished with exit code 0
Press ENTER to exit console.
```