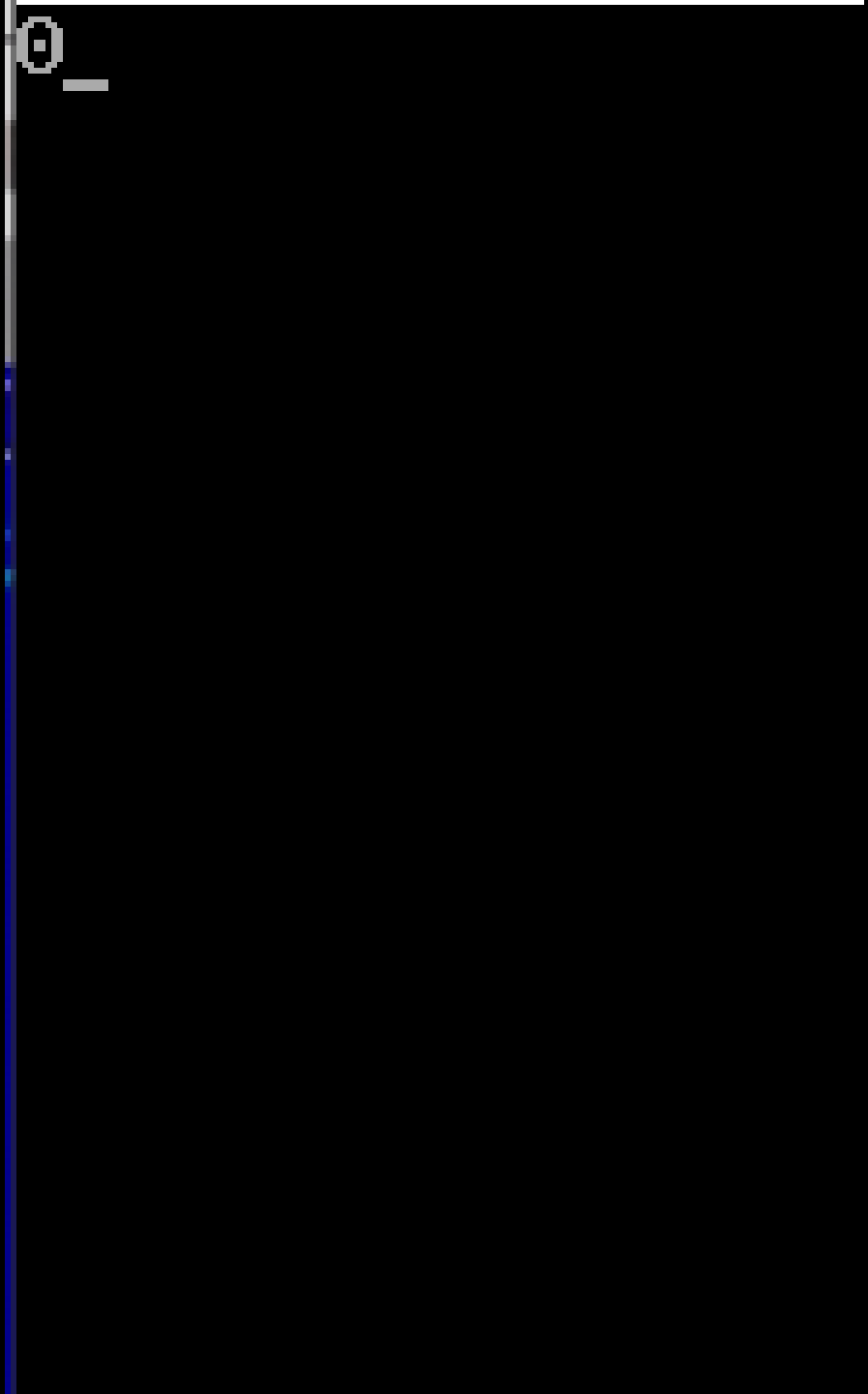


Photo Album

by sumit kumar

```
#include<stdio.h>
#include<conio.h>
void main()
{
int a=5,b=7,c;
clrscr();
c=a>b;
printf("%d",c);
getch();
}
```



```
#include<stdio.h>
#include<conio.h>
void main()
{
int a=5,b=7,c;
clrscr();
c=a<b;
printf("%d",c);
getch();
}
```



```
#include<stdio.h>
#include<conio.h>
void main()
{
int a=5,b=7,c;
clrscr();
c=a>b;
printf("%d",c);
getch();
}
```



```
#include<stdio.h>
#include<conio.h>
void main()
{
    int a=5,b=7,c;
    clrscr();
    c=a==b;
    printf("%d",c);
    getch();
}
```




```
#include<stdio.h>
```

```
#include<conio.h>
```

```
void main()
```

```
{
```

```
int a=5,b=7,c;
```

```
clrscr();
```

```
c=a!=b;
```

```
printf("%d",c);
```

```
getch();
```

```
}
```

1_

```
#include<stdio.h>
#include<conio.h>
void main()
{
int a=5,b=7,c;
clrscr();
c=a>b && a<b;
printf("%d",c);
getch();
}
```

0

```
#include<stdio.h>
#include<conio.h>
void main()
{
int a=5,b=7,c;
clrscr();
c=a>b || a<b;
printf("%d",c);
getch();
}
```



```
#include<stdio.h>
#include<conio.h>
void main()
{
int a=5,b=7,c;
clrscr();
c=!(a>b || a<b);
printf("%d",c);
getch();
}
```



```
#include<stdio.h>
#include<conio.h>
/*
assignment operator
a=a+b;a+=b;a-=b
*/
void main()
{
int a=5,b=7,c;
clrscr();
a+=b;
printf("%d",a);
getch();
}
```



```
#include<stdio.h>
#include<conio.h>
void main()
{
    int a=57;
    clrscr();
    if(a%2==0)
    {
        printf("EVEN NUMBER");
    }
    else
    {
        printf("ODD NUMBER");
    }
    getch();
}
```

ODD NUMBER_

bitwise operator :-

$\&, |, ^, \sim, <<, >>$

$$a = 4 = 100$$

$$b = 5 = 101$$

$$a \& b \quad \underline{100} \rightarrow 4 \checkmark$$

bitwise operator :-

$\&, |, ^, \sim, <<, >>$

$a = 4 = 100$

$b = 5 = 101$

$a \& b$ $\underline{100} \rightarrow 4$

$a | b$ $\underline{101} \rightarrow 5$

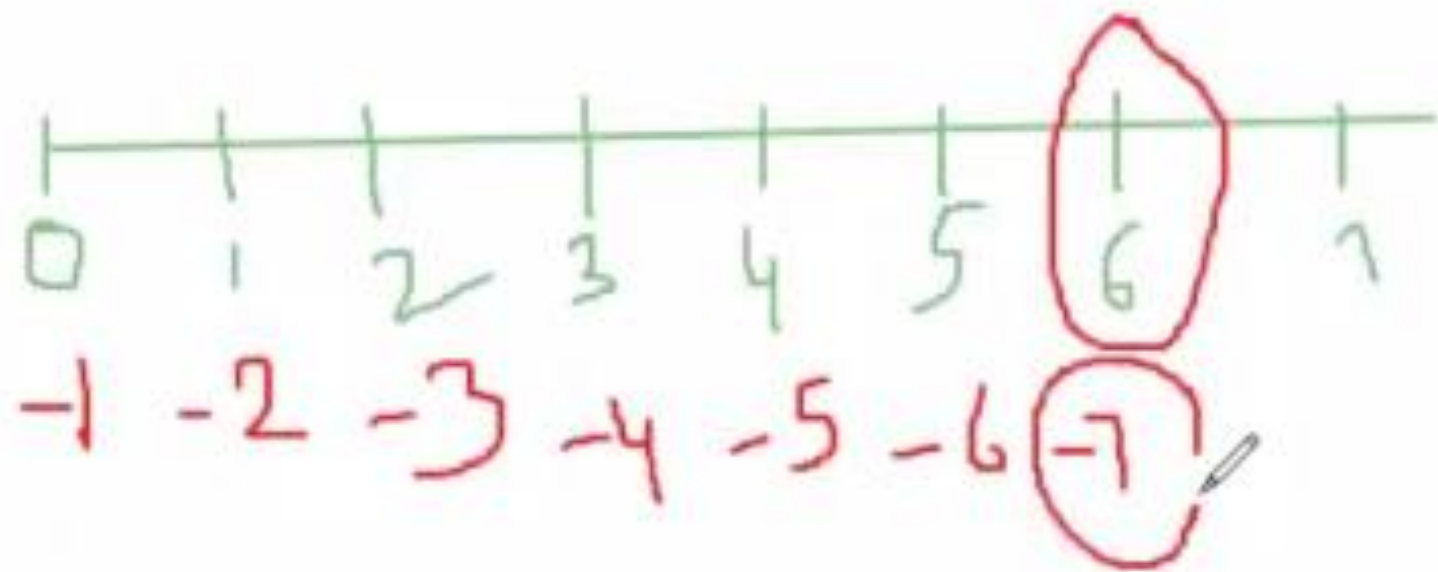
a	b	not a	not b	not a and b	+a and not b	a^b
0	0	1	1	0	+	0
0	1	1	0	1	+	1
1	0	0	1	0	+	1
1	1	0	0	0	+	0

$$a = 4 \quad | 0 0$$

$$b = 5 \quad | 0 1$$

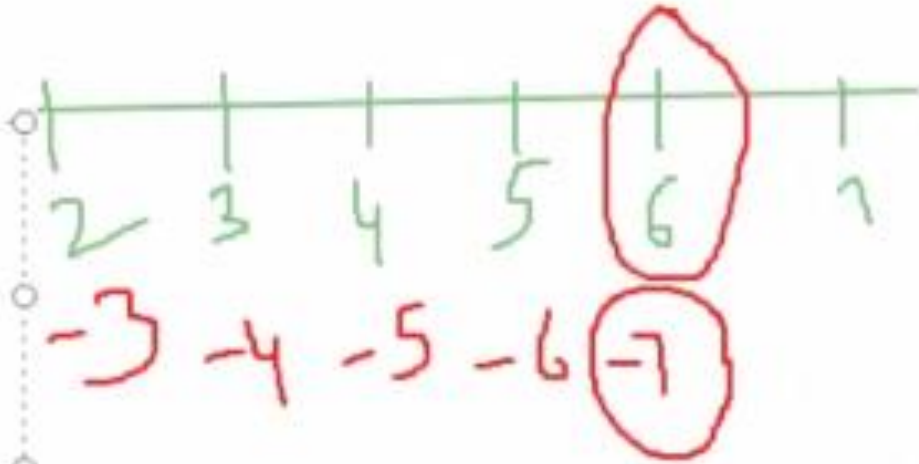
$$a \wedge b \quad 0 0 1 \quad /$$

2



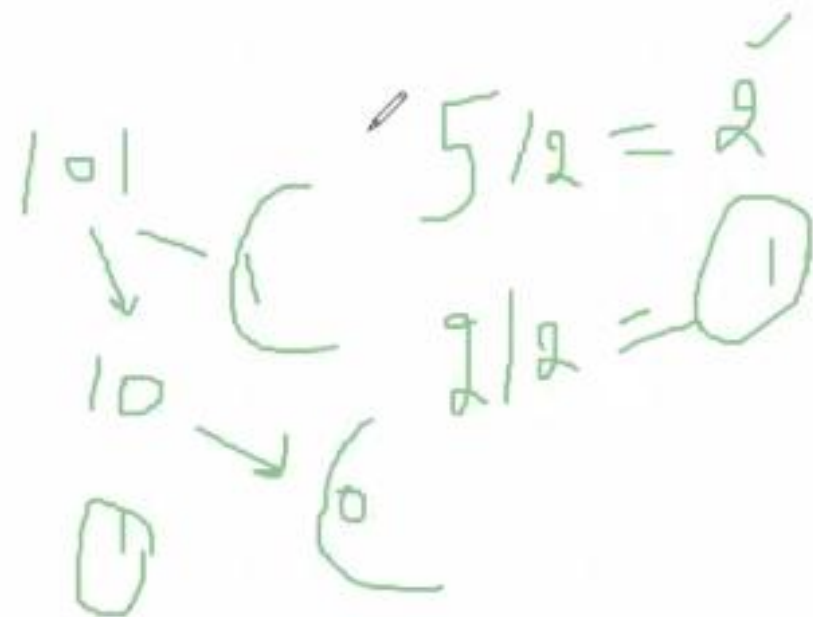
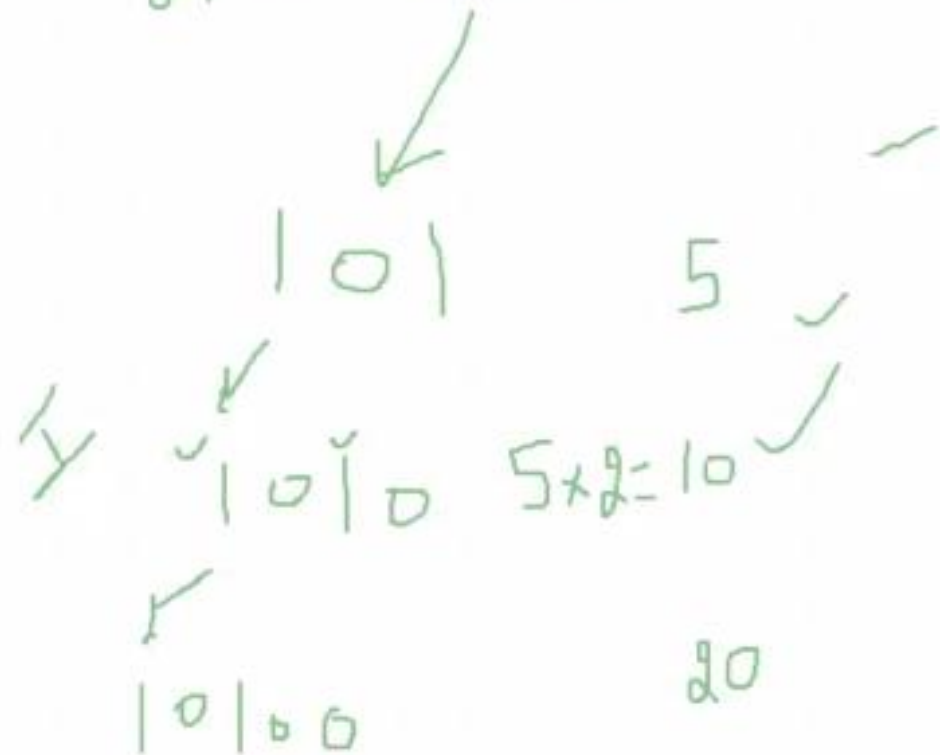
~

$-(-4)$
4
 $a=5$
 $c=\sim a$



$-(n+1)$
 $-(6+1)$
-7

0.772 $a < 2$



Assignment No. 4 (Day 6)

Find out the output in following programs:

3, 1, 40

a.

```
#include<stdio.h>
int main()
{
    int a,b,c,d,e;
    a=3*4%5;
    printf("%d\n",a);
    b=3 + 4 - 7*8/5%10;
    printf("%d\n",b);
    c=-3 + 4 - 7*8/5%10;
    printf("%d\n",c);
    d=4%5 + 6%5;
    printf("%d\n",d);
    e=-3*-4% -6/-5;
    printf("%d\n",e);
}
```

b.

```
#include<stdio.h>
void main()
{
printf ("%d\n",4/3);
printf ("%d\n", 4/-3);
printf ("%d\n",-4/3);
printf ("%d\n",-4/-3);
```



```
printf ("%d\n", 4% 3 ) ;
printf ("%d\n",4% -3);
printf ("%d\n", -4 % 3 ) ;
printf ("%d\n",-4 % -3);
}
```



```
#include<stdio.h>
int main()
{
int x = 10,y = 5, p,q;
p=x>9;
q = x>3 && y!=3;
printf("p = %d\t q = %d\n", p, q);
}
```

```
#include<stdio.h>
void main()
{
int a = 30, b = 40, x;
x = (a!=10) && (b = 50);
printf("x = %d\t b=%d\n",x,b);
}
```

```
void main()
{
    int a = 30, b = 40, x;
    x = (a!=10) || (b==30);
    printf("x = %d\t b=%d\n",x,b);
}
```

40

```
#include<stdio.h>
```

```
void main()
{
    int x = 10, y = 20;
    x = !x;
    y = !x&&!y;
    printf ("x = %d\t y = %d\n", x,y);
}
```

1 1 0 1 0


```
#include<stdio.h>
#include<conio.h>
void main()
{
    int a=10;
    clrscr();
    a++;
    printf("%d",a);
    getch();
}
```



```
#include<stdio.h>
#include<conio.h>
void main()
{
    int a=10;
    clrscr();
    a--;
    printf("%d",a);
    getch();
}
```


j.

```
#include<stdio.h>
```

```
void main()
```

```
{
```

```
int X = 0, Y = 20;
```

```
if (! ((!X) && ++Y))
```

```
printf("X = %d\n",X);
```

```
else
```

```
printf("Y = %d\n",Y);
```

```
}
```

if(0|)

k.

```
#include<stdio.h>
```

```
void main()
```

```
{
```

```
int X = 0, Y = 20;
```

```
if (! (!X) || ++Y)
```

```
printf("X = %d\t Y=%d\n",X,Y);
```

```
else
```

```
printf("Y = %d\n",Y);
```

```
}
```

```
#include<stdio.h>
#include<conio.h>
void main()
{
    int a=5,b=14,c=3;
    clrscr();
    if(a>b)
    {
        if(a>c)
        {
            printf("a is greater");
        }
        else
        {
            printf("c is greater");
        }
    }
    else
    {
        if(b>c)
        {
            printf("b is greater");
        }
        else
        {
            printf("c is greater");
        }
    }
    getch();
}
```

b is greater

```
#include<stdio.h>
#include<conio.h>
void main()
{
    int a=5,b=14,c=3,d=11;
    clrscr();
    if(a>b)
    {
        if(a>c)
        {
            if(a>d)
            {
                printf("a is greater");
            }
            else
            {
                printf("d is greater");
            }
        }
        else
        {
            if(c>d)
            {
                printf("c is greater");
            }
            else
            {
                printf("d is greater");
            }
        }
    }
}
else
{
    if(b>c)
    {
        if(b>d)
        {
            printf("b is greater");
        }
        else
        {
            printf("d is greater");
        }
    }
    else
    {
        if(c>d)
        {
            printf("c is greater");
        }
        else
        {
            printf("d is greater");
        }
    }
}
getch();
}
```


b is greater

```
#include<stdio.h>
#include<conio.h>
void main()
{
    int a=15,b=14,c=23;
clrscr();
if(a>b && a>c)
{
printf("a is greater");
}
else if(b>c && b>a)
{
printf("b is greater");
}
else
{
printf("c is greater");
}
getch();
}
```

c is greater

```
#include<stdio.h>
#include<conio.h>
void main()
{
int a=99,b,c,d;
clrscr();
printf("enter number:");
scanf("%d",a);
printf("%d",a);
getch();
}
```

enter number : 55

99

```
#include<stdio.h>
#include<conio.h>
void main()
{
int a,b,c,d;
clrscr();
printf("enter number:");
scanf("%d",a);
printf("%d",a);
getch();
}
```

enter number:55

-28771_

```
#include<stdio.h>
#include<conio.h>
void main()
{
    int a,b,c,d;
    clrscr();
    printf("enter number: ");
    scanf("%d",&a);
    printf("%d",a);
    getch();
}
```


enter number: 55

55

```

#include<stdio.h>
#include<conio.h>
void main()
{
    int a,b,c,d;
    clrscr();
    printf("enter first number: ");
    scanf("%d",&a);
    printf("enter second number: ");
    scanf("%d",&b);
    printf("enter third number: ");
    scanf("%d",&c);
    printf("enter forth number: ");
    scanf("%d",&d);
    if(a>b)
    {
        if(a>c)
        {
            if(a>d)
            {
                printf("a is greater");
            }
            else
            {
                printf("d is greater");
            }
        }
        else
        {
            if(c>d)
            {
                printf("c is greater");
            }
            else
            {
                printf("d is greater");
            }
        }
    }
    else
    {
        if(b>c)
        {
            if(b>d)
            {
                printf("b is greater");
            }
            else
            {
                printf("d is greater");
            }
        }
        else
        {
            if(c>d)
            {
                printf("c is greater");
            }
            else
            {
                printf("d is greater");
            }
        }
    }
    getch();
}

```

enter first number: 2

enter second number: 2

enter third number: 5

enter forth number: 7

d is greater

```
1  #include<stdio.h>
2  #include<conio.h>
3  void main()
4  {
5      int a=1;
6      clrscr();
7      while(a<=10)
8      {
9          printf("%d\n",a);
10         a++;
11     }
12     getch();
13 }
```

1

2

3

4

5

6

7

8

9

10

-

```
1  #include<stdio.h>
2  #include<conio.h>
3  void main()
4  {
5      int a=11;
6      clrscr();
7      do
8      {
9          printf("%d\n",a);
10         a++;
11     }
12     while(a<=10);
13     getch();
14 }
```



```
#include<stdio.h>
#include<conio.h>
void main()
{
    int a=1;
    clrscr();
    do
    {
        printf("%d\n",a);
        a++;
    }
    while(a<=10);
    getch();
}
```


1
2
3
4
5
6
7
8
9
10

```
#include<stdio.h>
#include<conio.h>
void main()
{
    int a;
    clrscr();
    for(a=1;a<=10;a++)
    {
        printf("%d\n",a);
    }
    getch();
}
```

1
2
3
4
5
6
7
8
9
10

```
1  
#include<stdio.h>
```

```
#include<conio.h>
```

```
void main()
```

```
{
```

```
int a;
```

```
clrscr();
```

```
for(a=1;a<=10;)
```

```
{
```

```
printf("%d\n",a);
```

```
a++;
```

```
}
```

```
getch();
```

```
}
```

1

2

3

4

5

6

7

8

9

10

—

```
1  
#include<stdio.h>  
#include<conio.h>  
void main()  
{  
int a;  
clrscr();  
for(a=10;a<=1;a--)  
{  
printf("%d\n",a);  
}  
getch();  
}
```



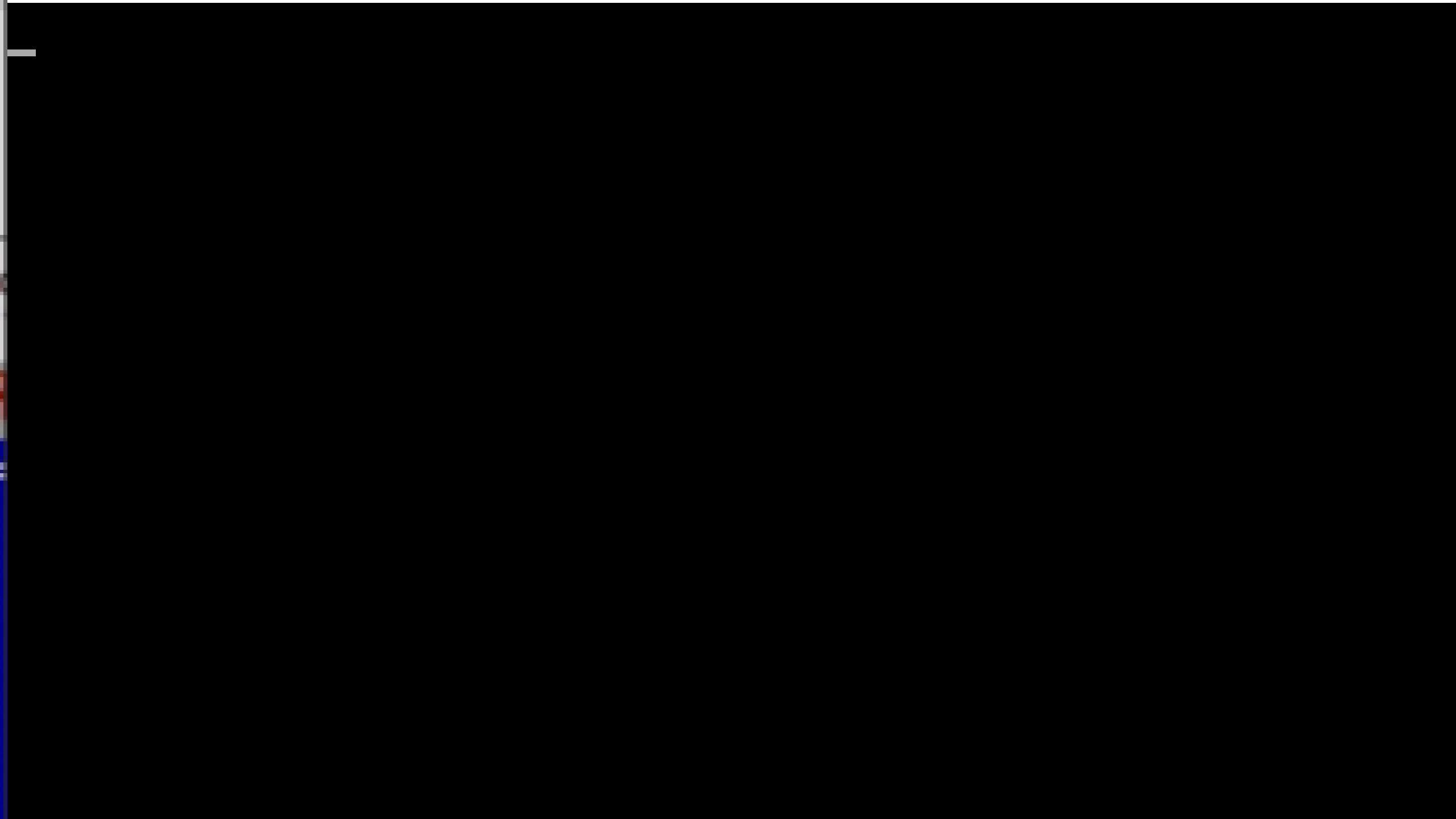
```
#include<stdio.h>
#include<conio.h>
void main()
{
    int a;
    clrscr();
    for(a=10;a>=1;a--)
    {
        printf("%d\n",a);
    }
    getch();
}
```


10
9
8
7
6
5
4
3
2
1
_

```
[■]
#include<stdio.h>
#include<conio.h>
void main()
{
clrscr();
while(1)
{
printf("hello");
}
getch();
}
```

Activate Windows

```
#include<stdio.h>
#include<conio.h>
void main()
{
clrscr();
while(0)
{
printf("hello");
}
getch();
}
```



```
[■] #include<stdio.h>
```

```
#include<conio.h>
```

```
void main()
```

```
{
```

```
clrscr();
```

```
do
```

```
{
```

```
printf("hello");
```

```
}
```

```
while(1);
```

```
getch();
```

```
}
```



```
#include<stdio.h>
#include<conio.h>
void main()
{
clrscr();
for(;;)
{
printf("hello");
}
getch();
}
```


n's screen

```
[ ]  
    include<stdio.h>  
#include<conio.h>  
void main()  
{  
    int a=5;  
    clrscr();  
    for(;a;)  
    {  
        printf("hello");  
    }  
    getch();  
}
```


n's screen hell hell hell lo

```
#include<stdio.h>
#include<conio.h>
void main()
{
int a=2;
clrscr();
switch(a)
{
case 1:
printf("one");
}
getch();
}
```



```
#include<conio.h>
void main()
{
    int a=2;
    clrscr();
    switch(a)
    {
        case 1:
            printf("one");
        case 2:
            printf("two");_
    }
    getch();
}
```

two_

```
#include<stdio.h>
#include<conio.h>
void main()
{
    int a=1;
    clrscr();
    switch(a)
    {
    case 1:
        printf("one\n");
    case 2:
        printf("two \n");
    default:
        printf("please enter a valid choice !!");
    }
    getch();
}
```


one

two

please enter a valid choice !!

```
#include<stdio.h>
#include<conio.h>
void main()
{
    int a=2;
    clrscr();
    switch(a)
    {
        case 1:
            printf("one\n");
            break;
        case 2:
            printf("two \n");
            break;
        default:
            printf("please enter a valid choice !!");
            break;
    }
    getch();
}
```

two

—

```
#include<stdio.h>
#include<conio.h>
void main()
{
    int a=2;
    clrscr();
    switch(a)
    {
    default:
        printf("please enter a valid choice !!");
        break;
    case 1:
        printf("one\n");
        break;
    case 2:
        printf("two \n");
        break;

    }
    getch();
}
```

two

```
#include<stdio.h>
#include<conio.h>
void main()
{
    int a;
    clrscr();
    printf("Enter your choice : ");
    scanf("%d",&a);
    switch(a)
    {
    default:
        printf("please enter a valid choice !!");
        break;
    case 1:
        printf("one\n");
        break;
    case 2:
        printf("two \n");
        break;_
    }
    getch();
}
```

Enter your choice : 2

two

—

```
#include<stdio.h>
#include<conio.h>
void main()
{
int a,b,c,d;
clrscr();
printf("Enter first number : ");
scanf("%d",&b);
printf("Enter second number : ");
scanf("%d",&c);
printf("Press 1 for addition \n");
printf("Press 2 for subtraction \n");
printf("Press 3 for multiplication\n");
printf("Press 4 for division\n");
printf("Press 5 for remainder\n");
printf("Enter your choice : ");
scanf("%d",&a);
switch(a)
{
    default:
        printf("please enter a valid choice !!");
        break;
    case 1:
        d=b+c;
        printf("the addition of %d and %d is %d",b,c,d);
        break;
    case 2:
        d=b-c;
        printf("the difference of %d and %d is %d",b,c,d);
        break;
    case 3:
        d=b*c;
        printf("the product of %d and %d is %d",b,c,d);
        break;
    case 4:
        d=b/c;
        printf("the division of %d and %d is %d",b,c,d);
        break;
    case 5:
        d=b%c;
        printf("the remainder of %d and %d is %d",b,c,d);
        break;
}
getch();
}
```


Enter first number : 3
Enter second number : 6
Press 1 for addition
Press 2 for subtraction
Press 3 for multiplication
Press 4 for division
Press 5 for remainder
Enter your choice : 3
the product of 3 and 6 is 18

```
#include<stdio.h>
#include<conio.h>
void main()
{
char p='a';
clrscr();
printf("%c",p);
getch();
}_
```



```
[11]  
#include<stdio.h>  
#include<conio.h>  
void main()  
{  
char p='AB';  
clrscr();  
printf("%c",p);  
getch();  
}
```


A_

```
#include<stdio.h>
#include<conio.h>
void main()
{
char p='AB';
clrscr();
printf("%c",p);
/* for(;;)
{
    printf("hello");
}*/
getch();
}
```

stack :- Last In first out

queue :- First in first out

```
#include<stdio.h>
#include<conio.h>
void main()
{
    char p='AB';
    printf("%c",p);
}
```

 C:\Users\bhart\Desktop\New folder\demodata1.exe

B

Process exited after 0.2292 seconds with return value 66
Press any key to continue . . .


```
#include<stdio.h>
#include<conio.h>
void main()
{
int a;
char p='AB';
clrscr();
a=sizeof(p);
printf("%d",a);
getch();
}
```

1 byte

= 8 bits

1.

```
#include<stdio.h>
```

```
#include<conio.h>
```

```
void main()
```

```
{
```

```
int a;
```

```
char p='A';
```

```
clrscr();
```

```
//a=sizeof(p);
```

```
printf("%d",p);
```

```
getch();
```

```
}
```

65_

```
#include<stdio.h>
#include<conio.h>
void main()
{
int a;
char p='A';
clrscr();
//a=sizeof(p);
printf("%c",p);
getch();
}
```

A_

```
#include<stdio.h>
#include<conio.h>
void main()
{
int a;
int p='A';
clrscr();
//a=sizeof(p);
printf("%d",p);
getch();
}
```

65_


```
#include<stdio.h>
#include<conio.h>
void main()
{
int a;
int p=65;
clrscr();
//a=sizeof(p);
printf("%d",p);
getch();
}
```



```
#include<stdio.h>
#include<conio.h>
void main()
{
int a;
int p=65;
clrscr();
//a=sizeof(p);
printf("%c",p);
getch();
}
```


=[■]

```
#include<stdio.h>
#include<conio.h>
void main()
{
    int a;
    char p=65;
    clrscr();
    //a=sizeof(p);
    // printf("%c",p);
    for(a=0;a<=127;a++)
    {
        printf("%d. ",a);
    }

    getch();
}
```

0. 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22.
. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42.
. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62.
. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82.
. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100. 101.
102. 103. 104. 105. 106. 107. 108. 109. 110. 111. 112. 113. 114. 115. 116. 117.
118. 119. 120. 121. 122. 123. 124. 125. 126. 127.

```
#include<stdio.h>
#include<conio.h>
void main()
{
    int a;
    //char p=65;
    clrscr();
    //a=sizeof(p);
    // printf("%c",p);
    for(a=0;a<=127;a++)
    {
        printf("%c. ",a);
    }
    getch();
}
```

. ☒. ☓. ♥. ♦. ♣. ♠. ...
. ♢. ✱. ►. ◄. †. ‡. ¶. §. ₧. ‡. †. ‡. →. ⊥. ✚. ▲. ▼. . !. ". #. \$. %. &. '. (.
.). *. +. ,. -. . / . 0. 1. 2. 3. 4. 5. 6. 7. 8. 9. :. ;. <. =. >. ?. @. A. B. C
. D. E. F. G. H. I. J. K. L. M. N. O. P. Q. R. S. T. U. V. W. X. Y. Z. [. \.].
^ . _ . ` . a. b. c. d. e. f. g. h. i. j. k. l. m. n. o. p. q. r. s. t. u. v. w. x.
y. z. {. |. }. ~. ♂. _


```
#include<stdio.h>
#include<conio.h>
void main()
{
    int a;
    //int p='A';
    clrscr();
    //a=sizeof(p);
    // printf("%d",p);
    for(a=0;a<=127;a++)
    {
        printf("%d.%c ",a,a);
    }
    getch();
}
```

0. 1. 2. 3. 4. 5. 6. 7. 8 9. 10.
11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30.
31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46.
47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62.
63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78.
79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94.
95. 96. 97. 98. 99. 100. 101. 102. 103. 104. 105. 106. 107. 108.
109. 110. 111. 112. 113. 114. 115. 116. 117. 118. 119. 120. 121. 122.
123. 124. 125. 126. 127. 128. 129. 130. 131. 132. 133. 134. 135. 136. 137. 138. 139. 140. 141. 142. 143. 144. 145. 146. 147. 148. 149. 150. 151. 152. 153. 154. 155. 156. 157. 158. 159. 160. 161. 162. 163. 164. 165. 166. 167. 168. 169. 170. 171. 172. 173. 174. 175. 176. 177. 178. 179. 180. 181. 182. 183. 184. 185. 186. 187. 188. 189. 190. 191. 192. 193. 194. 195. 196. 197. 198. 199. 200.

```
#include<stdio.h>
#include<conio.h>
void main()
{
int a;
//int p='A';
clrscr();
//a=sizeof(p);
// printf("%d",p);
for(a=0;a<=255;a++)
{
printf("%d.%c ",a,a);
}
getch();
}
```

0. 1.⓪ 2.⓫ 3.♥ 4.♦ 5.♠ 6.♣ 7. 8 9. 10.
14.⌘ 15.* 16.▶ 17.◀ 18.‡ 19.!! 20.¶ 21.§ 22.■ 23.‡ 24.† 25.↓ 26.→ 27.28.└ 29.↔ 3
0.▲ 31.▼ 32. 33.† 34." 35.# 36.\$ 37.٪ 38.& 39.' 40.(41.) 42.* 43.+ 44., 45.- 4
6.. 47.／ 48.⓪ 49.1 50.2 51.3 52.4 53.5 54.6 55.7 56.8 57.9 58.: 59.; 60.< 61.= 6
2.> 63.? 64.⓪ 65.A 66.B 67.C 68.D 69.E 70.F 71.G 72.H 73.I 74.J 75.K 76.L 77.M 7
8.N 79.O 80.P 81.Q 82.R 83.S 84.T 85.U 86.V 87.W 88.X 89.Y 90.Z 91.[92.\ 93.] 9
4.^ 95._ 96.` 97.a 98.b 99.c 100.d 101.e 102.f 103.g 104.h 105.i 106.j 107.k 108
.l 109.m 110.n 111.o 112.p 113.q 114.r 115.s 116.t 117.u 118.v 119.w 120.x 121.y
122.z 123.{ 124.¡ 125.} 126.~ 127.△ 128.Ç 129.ü 130.é 131.â 132.ä 133.à 134.å 1
35.ç 136.ê 137.ë 138.è 139.ï 140.î 141.ì 142.Ä 143.Å 144.É 145.æ 146.Æ 147.ô 148
.ö 149.ò 150.ô 151.ù 152.ÿ 153.ö 154.Ü 155.Ç 156.£ 157.¥ 158.℞ 159.f 160.á 161.í
162.ó 163.ú 164.ñ 165.Ñ 166.ª 167.º 168.¿ 169.ƒ 170.¬ 171.½ 172.¼ 173.ì 174.« 1
75.» 176.⌘ 177.⌘ 178.⌘ 179.| 180.† 181.† 182.|| 183.⌘ 184.† 185.† 186.|| 187.⌘ 188
.ª 189.ª 190.ª 191.† 192.† 193.† 194.† 195.† 196.- 197.† 198.† 199.|| 200.ª 201.⌘
202.ª 203.⌘ 204.|| 205.= 206.ª 207.† 208.ª 209.† 210.⌘ 211.ª 212.† 213.† 214.⌘ 2
15.|| 216.† 217.ª 218.† 219.■ 220.■ 221.■ 222.■ 223.■ 224.α 225.β 226.Γ 227.π 228
.Σ 229.σ 230.μ 231.τ 232.ϑ 233.θ 234.Ϡ 235.δ 236.ω 237.∅ 238.€ 239.π 240.≡ 241.±
242.≥ 243.≤ 244.† 245.J 246.÷ 247.≈ 248.° 249.· 250.· 251.√ 252.ª 253.² 254.■ 2
55. _

```
#include<stdio.h>
#include<conio.h>
void main()
{
    int n,l,res=1;
    clrscr();
    printf("Enter number : ");
    scanf("%d",&n);
    for(l=n;l>=1;l--)
    {
        res=res*l;
        printf("%d\n",res);
    }
    getch();
}
```

Enter number : 6

6

30

120

360

720

720

```
#include<stdio.h>
#include<conio.h>
void main()
{
    int n,l,res=1;
    clrscr();
    printf("Enter number : ");
    scanf("%d",&n);
    for(l=n;l>=1;l--)
    {
        res=res*l;
    }
    printf("%d\n",res);

    getch();
}
```

Enter number : 6

720

—


```
#include<stdio.h>
#include<conio.h>
void main()
{
int n,l,res=1;
clrscr();
printf("Enter number : ");
scanf("%d",&n);
for(l=n;l>=1;l--)
{
res=res*l;
}
printf("factorial of %d is : %d",l,res);

getch();
}
```

Enter number : 5

factorial of 5 is : 120

```
#include<stdio.h>
#include<conio.h>
void main()
{
int n,l,res=1;
clrscr();
printf("Enter number : ");
scanf("%d",&n);
for(l=n;l>=1;l--)
{
res=res*l;
}
printf("factorial of %d is : %d",n,res);

getch();
}
```

0 1 1 2 3 5 8 13 21 34

```
a=0
b=1
for(i=1;i<=10;i++)
{
    c=a+b
    printf("%d",a);
    a=b;
    b=c;
}
```

| a | b | c | i |
|----|----|----|----|
| 0 | 1 | 1 | 1 |
| 1 | 1 | 2 | 2 |
| 1 | 2 | 3 | 3 |
| 2 | 3 | 5 | 4 |
| 3 | 5 | 8 | 5 |
| 5 | 8 | 13 | 6 |
| 8 | 13 | 21 | 7 |
| 13 | 21 | 34 | 8 |
| | | | 9 |
| | | | 10 |

| i | a+b | c |
|----|-------|----|
| 1 | 0+1 | 1 |
| 2 | 1+1 | 2 |
| 3 | 1+2 | 3 |
| 4 | 2+3 | 5 |
| 5 | 3+5 | 8 |
| 6 | 5+8 | 13 |
| 7 | 8+13 | 21 |
| 8 | 13+21 | 34 |
| 9 | 21+34 | 55 |
| 10 | 34+55 | 89 |

Enter number : 5

factorial of 5 is : 120_

```
#include<stdio.h>
#include<conio.h>
void main()
{
    int a=0,b=1,c,n,i;
    clrscr();
    printf("Enter number : ");
    scanf("%d",&n);
    for(i=1;i<=n;i++)
    {
        c=a+b;
        printf("%d\n",a);
        a=b;
        b=c;
    }
    getch();
}
```

Enter number : 10

0

1

1

2

3

5

8

13

21

34


```
[■]  
#include<stdio.h>  
#include<conio.h>  
void main()  
{  
    int a=0,b=1,c,n,i;  
    clrscr();  
    printf("Enter number : ");  
    scanf("%d",&n);  
    for(i=1;i<=n;i++)  
    {  
        c=a+b;  
        printf("%d\n",c);  
        a=b;  
        b=c;  
    }  
    getch();  
}
```

Enter number : 10

1

2

3

5

8

13

21

34

55

89

-

```
#include<stdio.h>
#include<conio.h>
void main()
{
int a[5]={8,9,5,4,6};
//array is collection of homogeneous type of data.
clrscr();
printf("%d",a[2]);
getch();
}_
```

5

```
#include<stdio.h>
#include<conio.h>
void main()
{
    int i;
    int a[5]={8,9,5,4,6};
    //array is collection of homogeneous type of data.
    clrscr();
    for(i=0;i<5;i++)
    {
        printf("%d\n",a[i]);
    }
    getch();
}
```

18
19
5
4
6

```
#include<stdio.h>
#include<conio.h>
void main()
{
int i;
int a[5]={8,9,5,4,6};
//array is collection of homogeneous type of data.
clrscr();
for(i=0;i<5;i++)
{
printf("%d\n",i);
}
getch();
}
```

0

1

2

3

4

—


```
#include<stdio.h>
#include<conio.h>
void main()
{
int i;
int a[5]={8,9,5,4,6,7};
//array is collection of homogeneous type of data.
clrscr();
for(i=0;i<5;i++)
{
printf("%d\n",a[i]);
}
getch();
```

[■]===== Message =====5=[↑]

Compiling 72FILE.CPP:

Error 72FILE.CPP 6: Too many initializers



```
#include<stdio.h>
#include<conio.h>
void main()
{
int i;
int a[5]={8,9,5,4};
//array is collection of homogeneous type of data.
clrscr();
for(i=0;i<5;i++)
{
printf("%d\n",a[i]);
}
getch();
}
```

8
9
5
4
0

1

```
#include<stdio.h>
#include<conio.h>
void main()
{
    int i;
    int a[5]={8};
    //array is collection of homogeneous type of data.
    clrscr();
    for(i=0;i<5;i++)
    {
        printf("%d\n",a[i]);
    }
    getch();
}
```

8

0

0

0

0

—

```
#include<stdio.h>
#include<conio.h>
void main()
{
int i;
int a[5];
//array is collection of homogeneous type of data.
clrscr();
for(i=0;i<5;i++)
{
printf("%d\n",a[i]);
}
getch();
}
```

64

3283

-29222

12803

-28761

77

55

11

33

66

77

55

11

33

66


```
#include<stdio.h>
#include<conio.h>
void main()
{
    int i;
    int a[5];
    //array is collection of homogeneous type of data.
    clrscr();
    for(i=0;i<5;i++)
    {
        scanf("%d",&a[i]);
    }
    for(i=0;i<5;i++)
    {
        printf("%d\n",a[i]);
    }
    getch();
}
```

77

55

11

33

66

```
[11] #include<conio.h>
```

```
void main()
```

```
{
```

```
int i,size;
```

```
int a[5];
```

```
//array is collection of homogeneous type of data
```

```
clrscr();
```

```
printf("Enter size of array: ");
```

```
scanf("%d",&size);
```

```
for(i=0;i<size;i++)
```

```
{
```

```
scanf("%d",&a[i]);
```

```
}
```

```
printf("values in array: \n");
```

```
for(i=0;i<size;i++)
```

```
{
```

```
printf("%d\n",a[i]);
```

```
}
```

```
getch();
```

```
}
```

Enter size of array : 8

1

2

3

7

6

5

values in array :

1

2

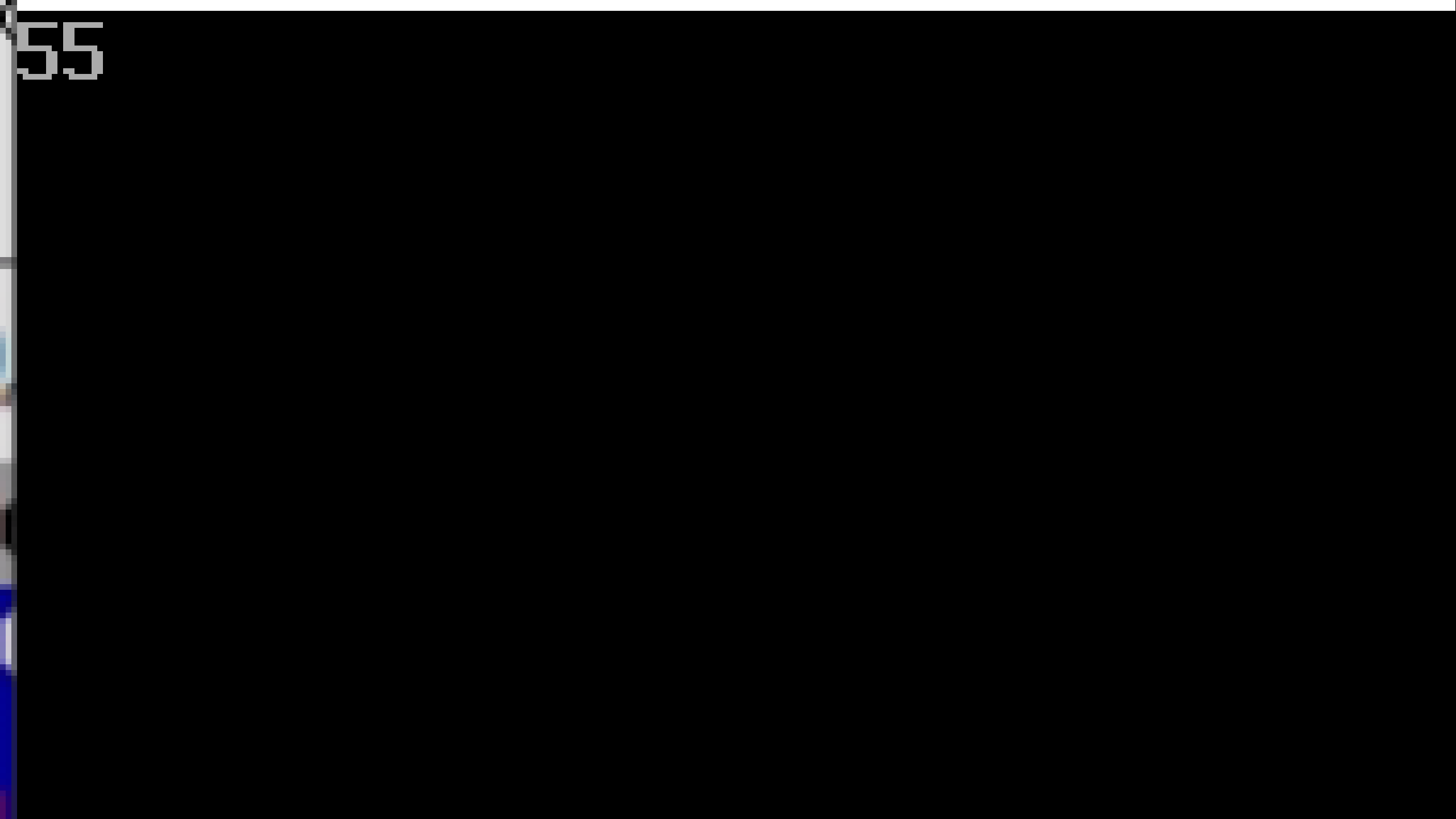
3

7

6

—

```
#include<stdio.h>
#include<conio.h>
void main()
{
int i,sum=0;
clrscr();
for(i=1;i<=10;i++)
{
sum=sum+i;
}
printf("%d",sum);
getch();
}
```



55

```
#include<stdio.h>
#include<conio.h>
void main()
{
int ar[5]={1,2,3,4,5};
int i,sum=0;
clrscr();
for(i=0;i<5;i++)
{
sum=sum+ar[i];
}
printf("%d",sum);
getch();
}
```

15_


```
void main()
{
int ar[100];
int i,sum=0,size;
clrscr();
printf("Enter size of array :");
scanf("%d",&size);
for(i=0;i<size;i++)

{
scanf("%d",&ar[i]);
}

for(i=0;i<size;i++)
{
sum=sum+ar[i];
}
printf("%d",sum);
getch();
}
```

Enter size of array :6

1

2

3

4

5

6

21

user

programmer

1

0

$i+1$

2

1

3

2

```
void main()
{
int ar[100];
int i,sum=0,size;
clrscr();
printf("Enter size of array :");
scanf("%d",&size);
printf("Enter %d values in array :\n ",size);
for(i=0;i<size;i++)
{
printf("Enter %d values in array : ",i+1);
scanf("%d",&ar[i]);
}

for(i=0;i<size;i++)
{
sum=sum+ar[i];
}
printf("sum is : %d",sum);
getch();
}
```

Enter size of array : 6

Enter 6 values in array :

Enter 1 value in array 1

Enter 2 value in array 2

Enter 3 value in array 3

Enter 4 value in array 4

Enter 5 value in array 5

Enter 6 value in array 6

21

```
#include<stdio.h>
#include<conio.h>
void main()
{
    int ar[100];
    int i,sum=0,size;
    clrscr();
    printf("Enter size of array :");
    scanf("%d",&size);
    for(i=0;i<size;i++)
    {
        scanf("%d",&ar[i]);
    }

    for(i=0;i<size;i++)
    {
        sum=sum+ar[i];
    }
    printf("%d",sum);
    getch();
}
```

Enter size of array :6

3

4

5

6

7

7

32

```
#include<stdio.h>
#include<conio.h>
void main()
{
int ar[5]={1,2,3,4,5};
int i,sum=0;
clrscr();
for(i=0;i<5;i++)
{
sum=sum+ar[i];
}
printf("%d",sum);
getch();
}_
```



```
#include<stdio.h>
#include<conio.h>
void main()
{
    int i,sum=0;
    clrscr();
    for(i=1;i<=10;i++)
    {
        sum=sum+i;
    }
    printf("%d",sum);
    getch();
}
```


Enter size of array : 10

1

2

3

4

5

6

7

8

9

10

values in array :

1

2

3

4

5

6

7

8

9

10

Enter size of array : 10

1

2

3

4

5

6

values in array :

1

2

3

4

5

6

Enter size of array : 4

1

2

3

4

values in array :

1

2

3

4

_

Enter size of array : 8

1

2

3

7

6

5

values in array :

1

2

3

7

6

```
#include<stdio.h>
#include<conio.h>
void main()
{
int i,size;
int a[5];
//array is collection of homogeneous type of data
clrscr();
printf("Enter size of array : ");
scanf("%d",&size);
for(i=0;i<size;i++)
{
scanf("%d",&a[i]);
}
printf("values inarray : \n");
for(i=0;i<size;i++)
{
printf("%d\n",a[i]);
}
getch();
}
```



```
#include<stdio.h>
#include<conio.h>
void main()
{
    int i;
    int a[5];
    //array is collection of homogeneous type of data
    clrscr();
    for(i=0;i<5;i++)
    {
        scanf("%d",&a[i]);
    }
    printf("value in array : \n");
    for(i=0;i<5;i++)
    {
        printf("%d\n",a[i]);
    }
    getch();
}
```

1
2
3
4
5

value in array :

1
2
3
4
5
_

```
#include<stdio.h>
#include<conio.h>
void main()
{
    int i;
    int a[5];
    //array is collection of homogeneous type of data
    clrscr();
    for(i=0;i<5;i++)
    {
        printf("%d\n",a[i]);
    }
    getch();
}
```

64

3283

-29222

12803

-28761

-

```
#include<stdio.h>
#include<conio.h>
void main()
{
int i;
int a[5]={8};
//array is collection of homogeneous type of data
clrscr();
for(i=0;i<5;i++)
{
printf("%d\n",a[i]);
}
getch();
}_
```

8000

```
#include<stdio.h>
#include<conio.h>
void main()
{
    int i;
    int a[5]={8,9,5,4};
    //array is collection of homogeneous type of data
    clrscr();
    for(i=0;i<5;i++)
    {
        printf("%d\n",a[i]);
    }
    getch();
}
```

8
9
5
4
0

—


```
#include<stdio.h>
#include<conio.h>
void main()
{
    int i;
    int a[5]={8,9,5,4,6,7};
    //array is collection of homogeneous type of data
    clrscr();
    for(i=0;i<5;i++)
    {
        printf("%d\n",a[i]);
    }
    getch();
}
```

```
#include<stdio.h>
#include<conio.h>
void main()
{
    int i;
    int a[5]={8,9,5,4,6,7};
    //array is collection of homogeneous type of data
    clrscr();
    for(i=0;i<5;i++)
    {
        printf("%d\n",a[i]);
    }
    getch();
}
```

[■]===== Message =====

Compiling 93FILE.CPP:

Error 93FILE.CPP 6: Too many initializers

```
#include<stdio.h>
#include<conio.h>
void main()
{
int i;
int a[5]={8,9,5,4,6};
//array is collection of homogeneous type of data
clrscr();
for(i=0;i<5;i++)
{
printf("%d\n",a[i]);
}
getch();
}
```

8
9
5
4
6

```
#include<stdio.h>
#include<conio.h>
void main()
{
int i;
int a[5]={8,9,5,4,6};
//array is collection of homogeneous type of data
clrscr();
for(i=0;i<5;i++)
{
printf("%d\n",i);
}
getch();
}
```

0

1

2

3

4

—

```
#include<stdio.h>
#include<conio.h>
void main()
{
    int i;
    int a[5]={8,9,5,4,6};
    //array is collection of homogeneous type of data
    clrscr();
    for(i=0;i<5;i++)
    {
        printf("%d\n",a[i]);
    }
    getch();
}
```

```
#include<stdio.h>
#include<conio.h>
void main()
{
int i;
int a[5]={8,9,5,4,6};
//array is collection of homogeneous type of data
clrscr();
for(i=0;i<5;i++)
{
printf("%d\n",a[i]);
}
getch();
}
```



Message

2=1↑

Compiling 95FILE.CPP:

•Error 95FILE.CPP 11: Expression syntax

Warning 95FILE.CPP 14: 'a' is assigned a value that is never used


```
#include<stdio.h>
#include<conio.h>
void main()
{
int a[5]={8,9,5,4,6};
//array is collection of homogeneous type of data
clrscr();
printf("%d\n",a[2]);
getch();
}
```



```
1  #include<stdio.h>
2  #include<conio.h>
3  void main()
4  {
5      int a=0,b=1,c,n,i;
6      printf("Enter number of terms :");
7      scanf("%d",&n);
8      for(i=1;i<=n;i++)
9      {
10         c=a+b;
11         printf("%d\n",a);
12         a=b;
13         b=c;
14     }
15     getch();
16 }
17
```

Enter number of terms :10

0

1

1

2

3

5

8

13

21

34

| i | a+b | c |
|----|-------|----|
| 1 | 0+1 | 1 |
| 2 | 1+1 | 2 |
| 3 | 1+2 | 3 |
| 4 | 2+3 | 5 |
| 5 | 3+5 | 8 |
| 6 | 5+8 | 13 |
| 7 | 8+13 | 21 |
| 8 | 13+21 | 34 |
| 9 | 21+34 | 55 |
| 10 | 34+55 | 89 |

```

0  1  1  2  3  5  8  13  21  3
a=0
b=1
for(i=1;i<=10;i++)
{
    c=a+b
    printf("%d",a);
    a=b;
    b=c;
}
a  b  c  i
0  1  1  1
1  1  2  2
1  2  3  3
2  3  5  4
3  5  8  5
5  8  13 6
8  13 21 7
13 21 34 8
          9
          10

```

```
1  #include<stdio.h>
2  #include<conio.h>
3  void main()
4  {
5      int a=0,b=1,c,n,i;
6      printf("Enter number of terms :");
7      scanf("%d",&n);
8      for(i=1;i<=n;i++)
9      {
10         c=a+b;
11         printf("%d\n",c);
12         a=b;
13         b=c;
14     }
15
16     getch();
17 }
```

Enter number of terms :10

1

2

3

5

8

13

21

34

55

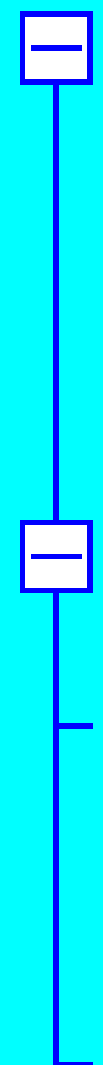
89


```
1  #include<stdio.h>
2  #include<conio.h>
3  void main()
4  {
5      int n,l,res=1;
6      printf("Enter number :");
7      scanf("%d",&n);
8      //for(l=1;l<5;l++)
9      for(l=n;l>=1;l--)
10     {
11         res=res*l;
12     }
13
14     printf("factorial of %d is : %d",n,res);
15     getch();
16 }
```

Enter number :5

factorial of 5 is : 120

```
1  #include<stdio.h>
2  #include<conio.h>
3  void main()
4  {
5      int n,l,res=1;
6      printf("Enter number :");
7      scanf("%d",&n);
8      //for(l=1;l<5;l++)
9      for(l=n;l>=1;l--)
10     {
11         res=res*l;
12     }
13
14     printf("factorial of %d is : %d",l,res);
15     getch();
16 }
```



Enter number :5

factorial of 5 is : 120

$$5! = 5 \times 4 \times 3 \times 2 \times 1$$

$$n! = n \times (n-1) \times \dots \times 1$$

①

$$5 = 1 \times 5$$

$$20 = 5 \times 4$$

$$60 = 20 \times 3$$

$$120 = 60 \times 2$$

$$120 = 120 \times 1$$

```
1  #include<stdio.h>
2  #include<conio.h>
3  void main()
4  {
5      int n,l,res=1;
6      printf("Enter number :");
7      scanf("%d",&n);
8      //for(l=1;l<5;l++)
9      for(l=n;l>=1;l--)
10     {
11         res=res*l;
12     }
13
14     printf("factorial of %d is : %d",res);
15     getch();
16 }
```

Enter number :5

factorial of 120 is : 536238977

```
1  #include<stdio.h>
2  #include<conio.h>
3  void main()
4  {
5
6      int n,l,res=1;
7      printf("Enter number : ");
8      scanf("%d",&n);
9      for(l=n;l>=1;l--)
10     {
11         res=res*l;
12     }
13     printf(" %d",res);
14     getch();
15 }
```


Enter number : 5
120

```
1  #include<stdio.h>
2  #include<conio.h>
3  void main()
4  {
5      int n,l,res=1;
6      printf("Enter number : \n");
7      scanf("%d",&n);
8      for(l=n;l>=1;l--)
9      {
10         res=res*l;
11         printf("%d\n",res);
12     }
13     getch();
14 }
```

The diagram illustrates the structure of the C program. A vertical line on the left side of the code is connected to line numbers 1 through 14. A bracket on the left side of the code spans from line 4 to line 14, indicating the main function body. A box on the left side of the code is placed next to line 4, and another box is placed next to line 9. A vertical line connects these two boxes, passing through line 5, 6, 7, 8, 10, 11, and 12. A horizontal line is drawn across the code at line 13, highlighting the line `getch();`.

Enter number :

5

5

20

60

120

120

```
1  #include<stdio.h>
2  #include<conio.h>
3  void main()
4  {
5      int n,l,res=1;
6      printf("Enter number : ");
7      scanf("%d",&n);
8      for(l=n;l>=1;l--)
9      {
10         res=res*l;
11         printf("%d",res);
12     }
13     getch();
14 }
```

Enter number : 5

52060120120

```
1  #include<stdio.h>
2  #include<conio.h>
3  void main()
4  {
5      int a;
6      for(a=0;a<=255;a++)
7      {
8          Printf("%d.%c ",a,a);
9      }
10     getch();
11 }
```

The diagram illustrates the structure of the C program. A vertical line connects the line numbers 4 through 11. Horizontal brackets are used to group the code blocks: one bracket spans from line 4 to line 11, indicating the scope of the main function body, and another bracket spans from line 7 to line 9, indicating the scope of the loop body.

0. 1. 2. 3. 4. 5. 6. 7. 8. 9. 10.
11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100. 101. 102. 103. 104. 105. 106. 107. 108. 109. 110. 111. 112. 113. 114. 115. 116. 117. 118. 119. 120. 121. 122. 123. 124. 125. 126. 127. 128. 129. 130. 131. 132. 133. 134. 135. 136. 137. 138. 139. 140. 141. 142. 143. 144. 145. 146. 147. 148. 149. 150. 151. 152. 153. 154. 155. 156. 157. 158. 159. 160. 161. 162. 163. 164. 165. 166. 167. 168. 169. 170. 171. 172. 173. 174. 175. 176. 177. 178. 179. 180. 181. 182. 183. 184. 185. 186. 187. 188. 189. 190. 191. 192. 193. 194. 195. 196. 197. 198. 199. 200. 201. 202. 203. 204. 205. 206. 207. 208. 209. 210. 211. 212. 213. 214. 215. 216. 217. 218. 219. 220. 221. 222. 223. 224. 225. 226. 227. 228. 229. 230. 231. 232. 233. 234. 235. 236. 237. 238. 239. 240. 241. 242. 243. 244. 245. 246. 247. 248. 249. 250. 251. 252. 253. 254. 255.

```
1  /*
2  user defined function :-
3  1. declaration of a function
4      something nothing<return type> mrg(<take type>): something nothing
5          a) RN, TN
6          b) RS, TN
7          c) RS, TS
8          d) RN, TS
9  2. defination of a function
10 3. calling of a function
11 */
12 #include<stdio.h>
13 #include<conio.h>
14 void mrg();
15 void mrg()
16 {
17     printf("hello\n");
18 }
19 void main()
20 {
21     printf("hii \n");
22     mrg();
23     printf("hye");
24     getch();
25 }
```


hii

hello

hye

```
1  /*
2  user defined function :-
3  1. declaration of a function
4      something nothing<return type> mrg(<take type>): something nothing
5          a) RN, TN
6          b) RS, TN
7          c) RS, TS
8          d) RN, TS
9  2. defination of a function
10 3. calling of a function
11 */
12 #include<stdio.h>
13 #include<conio.h>
14 void mrg();
15 void mrg()
16 {
17     int a,b,c;
18     printf("Enter first number :");
19     scanf("%d",&a);
20     printf("Ener second numbe :");
21     scanf("%d",&b);
22     c=a+b;
23     printf("The addition of %d is %d is :%d",a,b,c);
24 }
25 void main()
26 {
27     printf("hlw \n");
28     mrg();
29     getch();
30 }
```

hlw

Enter first number :5

Ener second numbe :6

The addition of 5 is 6 is :11

```
1  /*
2  user defined function :-
3  1. declaration of a function
4      something nothing<return type> mrg(<take type>): something nothing
5      a) RN, TN
6      b) RS, TN
7      c) RS, TS
8      d) RN, TS
9  2. defination of a function
10 3. calling of a function
11 */
12 #include<stdio.h>
13 #include<conio.h>
14 void mrg();
15 void mrg()
16 {
17     int a,b,c;
18     printf("Enter first number :");
19     scanf("%d",&a);
20     printf("Ener second number :");
21     scanf("%d",&b);
22     c=a+b;
23     printf("The addition of %d is %d is :%d\n",a,b,c);
24 }
25 void main()
26 {
27     printf("hlw \n");
28     mrg();
29     mrg();
30     mrg();
31     printf("Bye");
32     getch();
33 }
```

hlw

Enter first number :5

Ener second number :6

The addition of 5 is 6 is :11

Enter first number :10

Ener second number :20

The addition of 10 is 20 is :30

Enter first number :9

Ener second number :8

The addition of 9 is 8 is :17

Bye

```
12  #include<stdio.h>
13  #include<conio.h>
14  int mrg();
15  int mrg()
16  {
17      int a,b,c;
18      printf("Enter first number :");
19      scanf("%d",&a);
20      printf("Ener second number :");
21      scanf("%d",&b);
22      c=a+b;
23      return c;
24      //printf("The addition of %d is %d is :%d\n",a,b,c);
25  }
26  void main()
27  {
28      int p;
29      printf("hlw \n");
30      p=mrg();
31      printf("Sum is : %d",p);
32      getch();
33  }
```

h1w

Enter first number :5







Ener second number :6

Sum is : 11

```

12  #include<stdio.h>
13  #include<conio.h>
14  int mrg();
15  int mrg()
16  {
17      int a,b,c;
18      printf("Enter first number :");
19      scanf("%d",&a);
20      printf("Enter second number :");
21      scanf("%d",&b);
22      c=a+b;
23      return c;
24      //printf("The addition of %d is %d is :%d\n",a,b,c);
25  }
26  void main()
27  {
28      int p;
29      printf("hlw \n");
30      p=mrg();
31      printf("The addition of %d and %d is :%d\n",a,b,p);
32      //printf("Sum is : %d",p);
33      getch();
34  }

```

 Compiler (4)
  Resources
  Compile Log
  Debug
  Find Results
  Close

| Line | Col | File | Message |
|------|-----|---|---|
| | | C:\Users\sumit kumar\Desktop\New folder\newfile.c | In function 'main': |
| 31 | 47 | C:\Users\sumit kumar\Desktop\New folder\newfile.c | [Error] 'a' undeclared (first use in this function) |
| 31 | 47 | C:\Users\sumit kumar\Desktop\New folder\newfile.c | [Note] each undeclared identifier is reported only once for each function it appears in |
| 31 | 49 | C:\Users\sumit kumar\Desktop\New folder\newfile.c | [Error] 'b' undeclared (first use in this function) |


```
12  #include<stdio.h>
13  #include<conio.h>
14  int a,b;
15  int mrg();
16  int mrg()
17  {
18      int c;
19      printf("Enter first number :");
20      scanf("%d",&a);
21      printf("Enter second number :");
22      scanf("%d",&b);
23      c=a+b;
24      return c;
25      //printf("The addition of %d is %d is :%d\n",a,b,c);
26  }
27  void main()
28  {
29      int p;
30      printf("hlw \n");
31      p=mrg();
32      printf("The addition of %d and %d is :%d\n",a,b,p);
33      //printf("Sum is : %d",p);
34      getch();
35  }
```

hlw

Enter first number :5

Ener second number :6

The addition of 5 and 6 is :11

```

1  /*
2  user defined function :-
3  1. declaration of a function
4      something nothing<return type> mrg(<take type>): something nothing
5          a) RN,TN
6          b) RS,TN
7          c) RS,TS
8          d) RN,TS
9  2. defination of a function
10 3. calling of a function
11 */
12 #include<stdio.h>
13 #include<conio.h>
14 int a,b,c;
15 int mrg();
16 int mrg()
17 {
18     int a,b,c;
19     printf("Enter first number :");
20     scanf("%d",&a);
21     printf("Enter second number :");
22     scanf("%d",&b);
23     c=a+b;
24     return c;
25     //printf("The addition of %d is %d is :%d\n",a,b,c);
26 }
27 void main()
28 {
29     int p;
30     printf("hii \n");
31     p=mrg();
32     printf("The addition of %d and %d is :%d\n",a,b,c);
33     //printf("Sum is : %d",p);
34     getch();
35 }

```

hi

Enter first number : 7

Enter second number : 5

the addition of 7 and 5 is : 12

—

```
12  #include<stdio.h>
13  #include<conio.h>
14  int a,b;
15  int mrg();
16  int mrg()
17  {
18      int a,b,c;
19      printf("Enter first number :");
20      scanf("%d",&a);
21      printf("Enter second number :");
22      scanf("%d",&b);
23      c=a+b;
24      return c;
25      //printf("The addition of %d is %d is :%d\n",a,b,c);
26  }
27  void main()
28  {
29      int p;
30      printf("hii \n");
31      p=mrg();
32      printf("The addition of %d and %d is :%d\n",a,b,p);
33      //printf("Sum is : %d",p);
34      getch();
35  }
```

hii

Enter first number :5

Enter second number :6

The addition of 5 and 6 is :11

/*pointer -> pointer is a variable which stores the address of another variable.*/

```
#include<stdio.h>
```

```
#include<conio.h>
```

```
void main()
```

```
{
```

```
int a=5,*b;
```

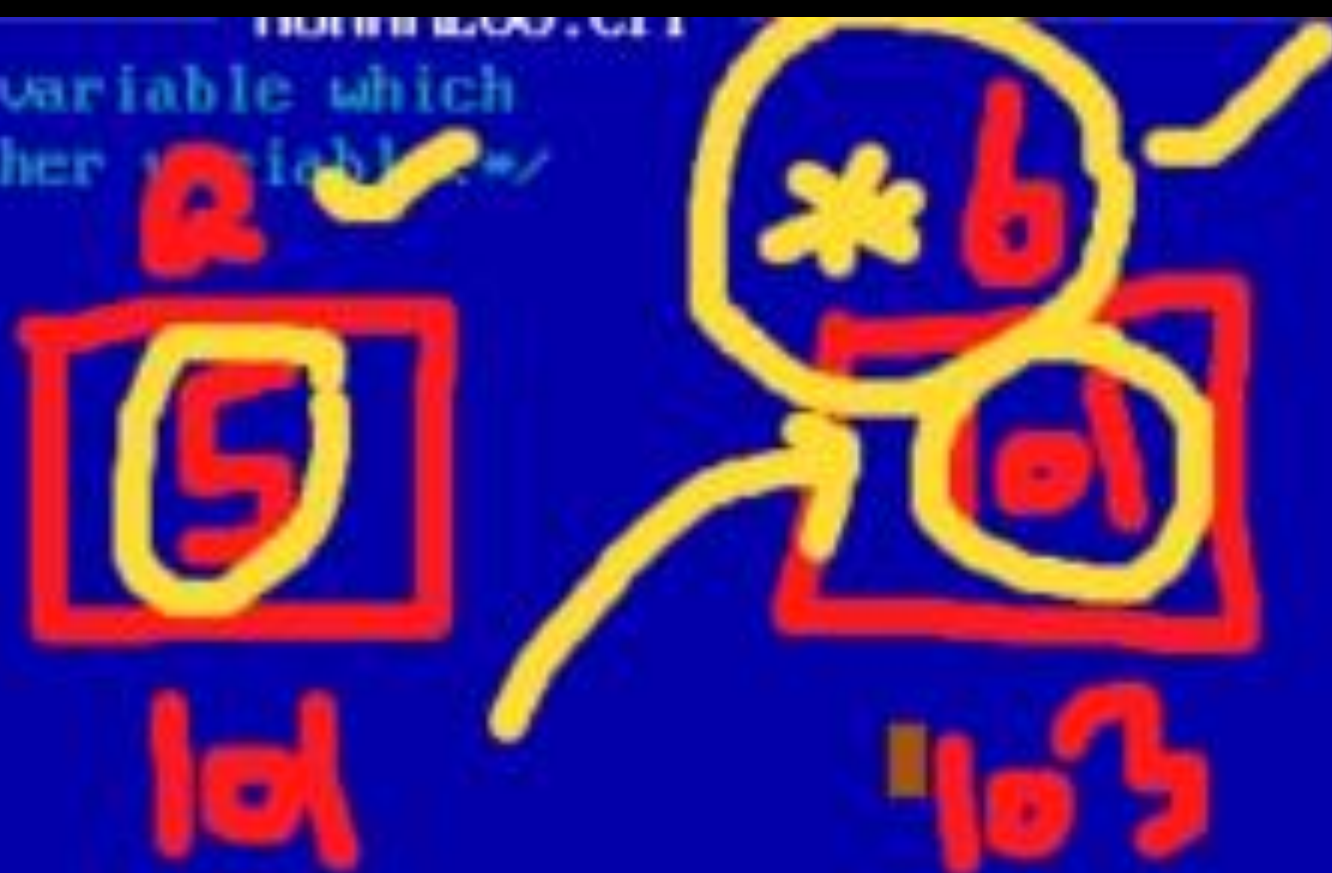
```
clrscr();
```

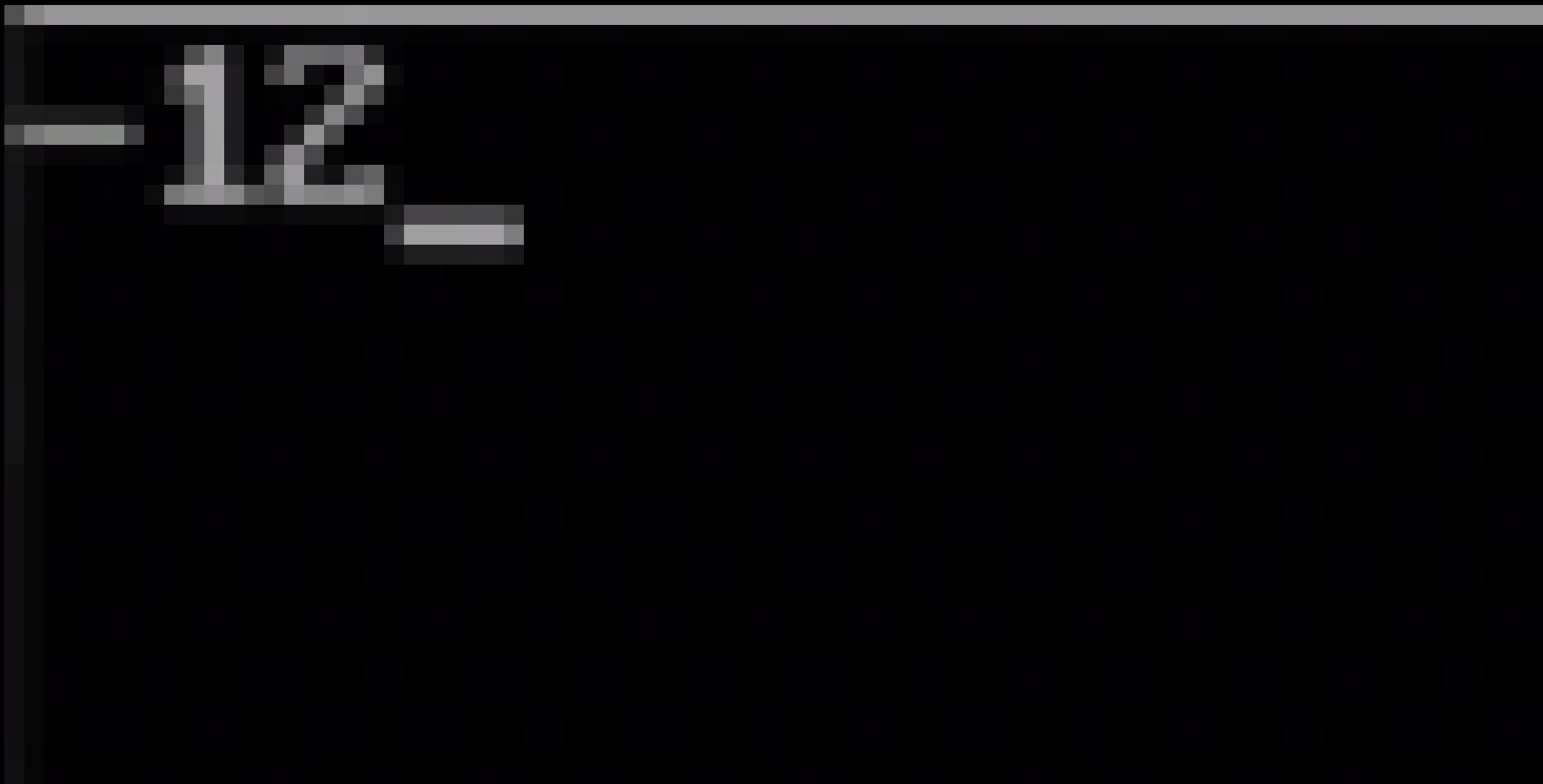
```
b=&a;
```

```
printf("%d",&a);
```

```
getch();
```

```
}
```





/*pointer -> pointer is a variable which stores the address of another variable.*/

```
#include<stdio.h>
#include<conio.h>
```

```
void main()
```

```
{
    int a=5,*b;
```

```
    clrscr();
```

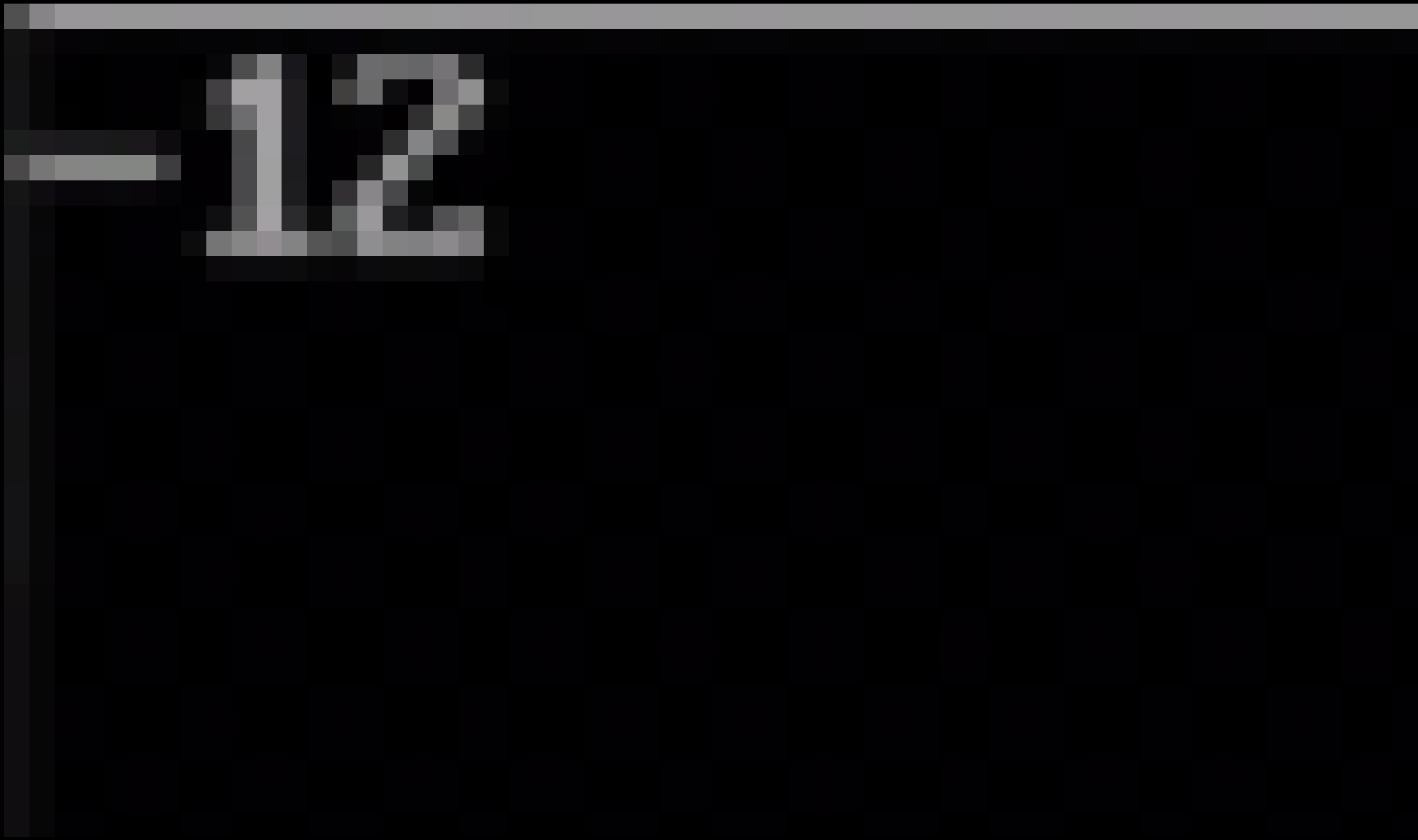
```
    b=&a;
```

```
    printf("%d",b);
```

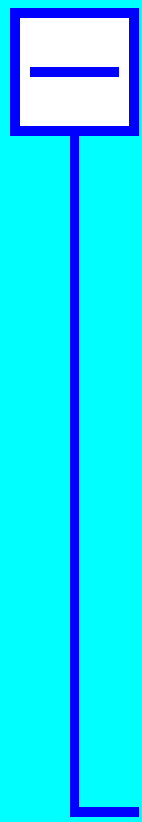
```
    getch();
```

```
}
```



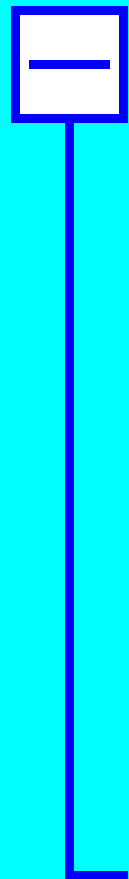


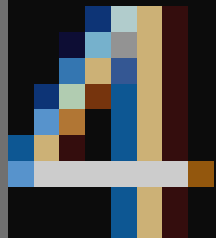
```
3  #include<stdio.h>
4  #include<conio.h>
5  void main()
6  {
7      int a=5,*b;
8      b=&a;
9      printf("%u",b);
10     getch();
11 }
```

A diagram consisting of a small white box with a black border on line 6, containing a horizontal black line. A vertical blue line extends downwards from the box, ending in a horizontal blue line that connects to the closing curly brace '}' on line 11.

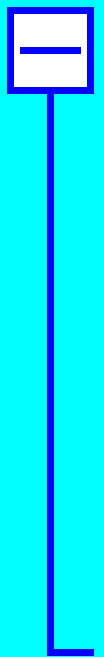
64572

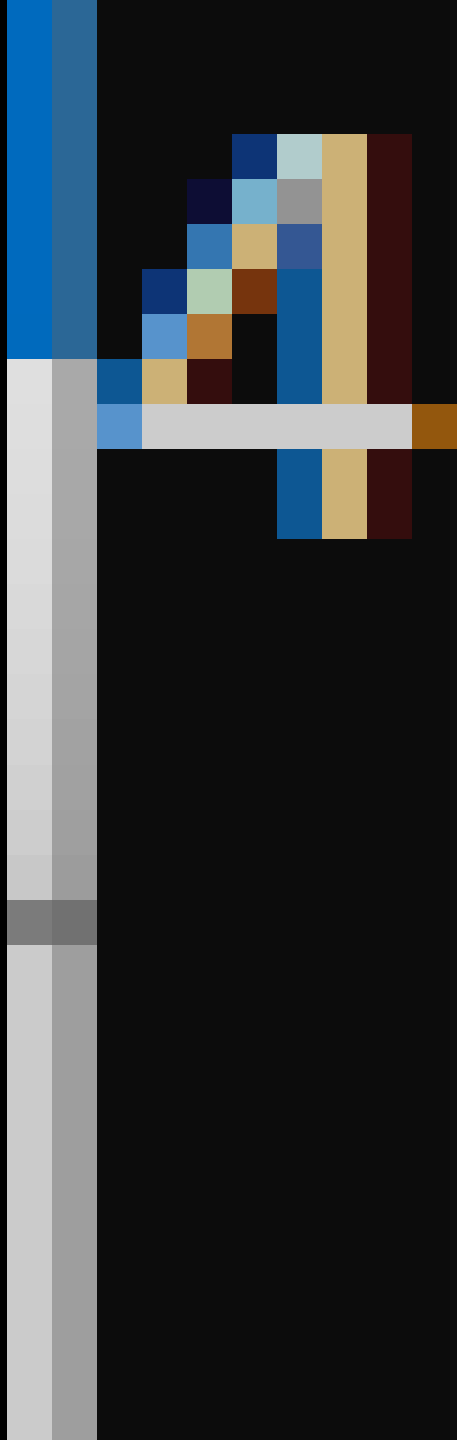
```
3  #include<stdio.h>
4  #include<conio.h>
5  void main()
6  {
7      int a=5,*b,c;
8      //b=&a;
9      c=sizeof(a);
10     printf("%d",c);
11     getch();
12 }
```



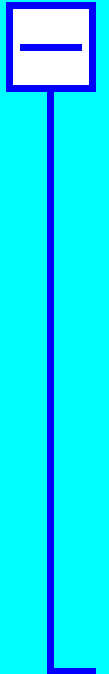


```
1  /*pointer -> pointer is a variable which
2  stores the address of the variable */
3  #include<stdio.h>
4  #include<conio.h>
5  void main()
6  {
7      int a=5,*b,c;
8      //b=&a;
9      c=sizeof(float);
10     printf("%d",c);
11     getch();
12 }
```

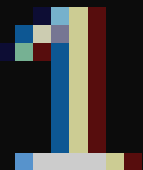
A blue bracket is drawn on the left side of the code, starting from the opening curly brace on line 6 and extending down to the closing curly brace on line 12, indicating the scope of the main function.




```
1  /*pointer -> pointer is a variable which
2  stores the address of the variable */
3  #include<stdio.h>
4  #include<conio.h>
5  void main()
6  {
7      int a=5,*b,c;
8      //b=&a;
9      c=sizeof(char);
10     printf("%d",c);
11     getch();
12 }
```



A diagram consisting of a small white square with a black border containing a minus sign, located to the left of line 6. A vertical blue line extends downwards from the bottom of this square, ending at line 12. This diagram likely represents a pointer variable 'b' pointing to the memory location of variable 'a'.



/*pointer -> pointer is a variable which stores the address of another variable.*/

```
#include<stdio.h>
```

```
#include<conio.h>
```

```
void main()
```

```
{
```

```
int a=5,*b,c;
```

```
clrscr();
```

```
//b=&a;
```

```
c=sizeof(char);
```

```
printf("%d",c);
```

```
getch();
```

```
}
```

256 1 byte = 8 bits

128 to 128-1

-2 to 2-1

-2 to 2-1

/*pointer -> pointer is a variable which stores the address of another variable.*/

```
#include<stdio.h>
```

```
#include<conio.h>
```

```
void main()
```

```
{
```

```
int a=5,*b,c;
```

```
clrscr();
```

```
//b=&a;
```

```
c=32767;
```

```
printf("%d",c);
```

```
getch();
```

```
}
```

n=2 byte=16 bits

16 ✓
2

-2^{15} to $2^{15}-1$

11 ✓

65535 6-1

-32768 to 32767

1

65535

32767

n=2 byte=16 bits

$$-2^{15} \quad \text{to} \quad 2^{15}-1$$

6553 6-1

-32768 to 32767

6535

32760

/*pointer -> pointer is a variable which stores the address of another variable.*/

```
#include<stdio.h>
#include<conio.h>
```

```
void main()
```

```
{
int a=5,*b,c;
```

```
clrscr();
```

```
//b=&a;
```

```
c=32769;
```

```
printf("%d",c);
```

```
getch();
```

```
}
```

n=2 byte=16 bits

16 ✓
2

11 ✓
↓

65535 6-1

15
- 2¹⁵ to 2¹⁵ - 1

-32768 to 32767

32769-32768=1-32768

-32767

65535

32767

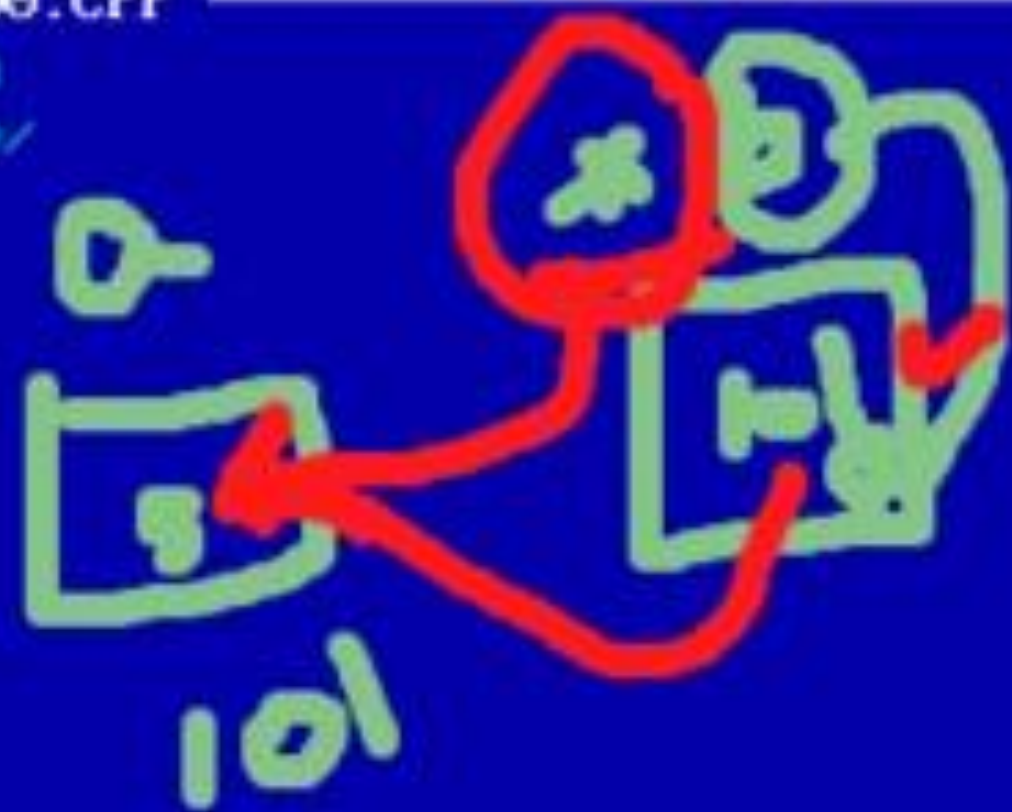
1-1

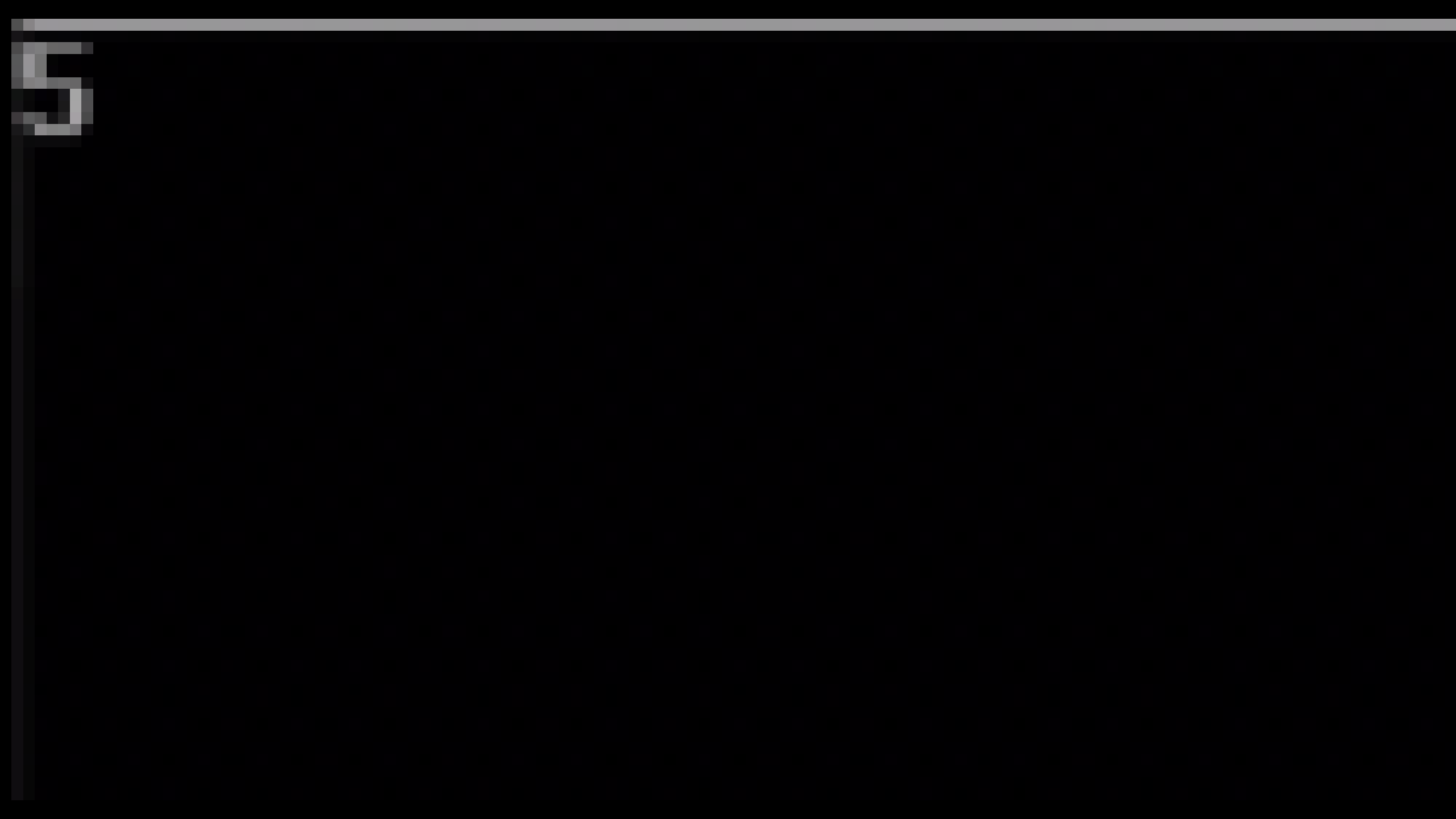
NONAME99.CPP

/*pointer -> pointer is a variable which stores the address of another variable.*/

```
#include<stdio.h>
#include<conio.h>
```

```
void main()
{
    int a=5,*b,c;
    clrscr();
    b=&a;
    //c=32769;
    printf("%d",*b);
    getch();
}
```





```
#include<stdio.h>
#include<conio.h>
void add(int a,int b)
{
    a=a+b;

    printf("the value of a is : %d and b is : %d",a,b);
}
void main()
{
    int a,b,c;
    clrscr();
    printf("Enter first number : ");
    scanf("%d",&a);

    printf("Enter second number : ");
    scanf("%d",&b);
    add(a,b);
    printf("the value of a is : %d and b is : %d",a,b);

    getch();
}
```

Enter first number : 3

Enter second number : 4

the value of a is : 7 and b is : 4the value of a is : 3 and b is : 4

```
#include<stdio.h>
#include<conio.h>
void add(int *a,int *b)
{
    *a=*a+*b;
    printf("the value of a is : %d and b is : %d",*a,*b);
}
void main()
{
    int a,b,c;
    clrscr();
    printf("Enter first number : ");
    scanf("%d",&a);

    printf("Enter second number : ");
    scanf("%d",&b);
    add(&a,&b);
    printf("the value of a is : %d and b is : %d",a,b);

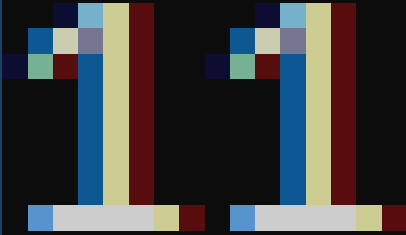
    getch();
}
```

Enter first number : 3

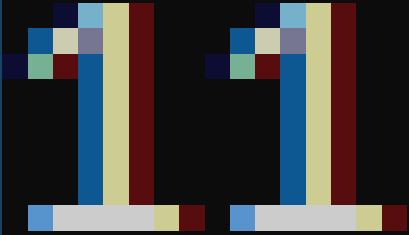
Enter second number : 4

the value of a is : 7 and b is : 4the value of a is : 7 and b is : 4_

```
/*loop :-  
for -> range  
while ->condition  
do while -> */  
#include<stdio.h>  
#include<conio.h>  
void main()  
{  
int a=11;  
clrscr();  
do  
{  
printf("%d\n",a);  
}while(a<1);  
getch();  
}
```

```
/*loop :-  
for -> range  
while -> condition  
do while -> */  
#include<stdio.h>  
#include<conio.h>  
void main()  
{  
int a=11;  
clrscr();  
do  
{  
printf("%d\n",a);  
a--;  
}_  
}while(a<1);  
getch();  
}
```



```
[■]
/*loop :-
    take nothing,return nothing
    take nothing,return something
    take something,return something
    take something ,return nothing
*/
#include<stdio.h>
#include<conio.h>
void hello();
void hello()
{
    printf("welcome");
}
void main()
{
    clrscr();
    hello();_
    getch();
}
```

welcome

light blink :-

```
#define abc 13
```

```
void setup()
```

```
{
```

```
    pinMode(abc,OUTPUT);
```

```
}
```

```
void loop()
```

```
{
```

```
    digitalWrite(abc,HIGH);
```

```
    delay(1000);
```

```
    digitalWrite(abc,LOW);
```

```
    delay(1000);
```

```
}
```

```
[ ]  
#include<stdio.h>
```

```
#include<conio.h>
```

```
#define abc 13
```

```
void main()
```

```
{
```

```
clrscr();
```

```
printf("%d", ++abc);
```

```
getch();
```

```
}
```

Compiling

Main file: NONAME00.CPP

Compiling: EDITOR → NONAME00.CPP

| | Total | File |
|-----------------|-------|------|
| Lines compiled: | 461 | 461 |
| Warnings: | 0 | 0 |
| Errors: | 1 | 1 |

Available memory: 1969K

Errors : Press any key


```
[ ]  
#include<stdio.h>  
#include<conio.h>  
#define data(r) r*r  
void main()  
{  
    int abc=3;  
    clrscr();  
    data(abc+4)  
    getch();  
}
```

```
1  
#include<stdio.h>  
#include<conio.h>  
#define data(r) r*r
```

```
void main()
```

```
{
```

```
int abc=3,res;
```

data(3+4*3+4)

```
clrscr();
```

```
res=data(abc+4);
```

```
printf("%d",res);
```

```
getch();
```

```
}
```



```
#include<stdio.h>
#include<conio.h>
#define data(r) r*r
void main()
{
    int abc=3,res;
    clrscr();
    res=data((abc+4));
    printf("%d",res);

    getch();
}
```

data((3+4)*(3+4))

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