

# ALL THE QUESTIONS OF 2<sup>ND</sup> WEEK IN C LANGUAGE

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Q1 Find out the largest number among 4 number by writing aa code In C language :

```
C 2.c x
C 2.c > main()
1  #include <stdio.h>
2  int main() {
3
4      int num1,num2,num3,num4;
5
6      printf("enter any four number of your choice :\n ");
7      scanf("%d%d%d%d",&num1,&num2,&num3,&num4);
8
9      if(num1>num2&&num1>num3&&num1>num4)
10         printf("%d is greatest ",num1);
11     else if(num2>num1&&num2>num3&&num2>num4)
12         printf("%d is the greatest ",num2);
13     else if(num3>num1&&num3>num2&&num3>num4)
14         printf("%d is the greatest ",num3);
15     else
16         printf("%d is the greatest ",num4);
17
18     return 0;
19 }
```

PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE PORTS

```
> cd "c:\Users\nitis\OneDrive\Desktop\c language\" ; if ($?) { gcc 2.c -o 2 } ; if ($?) { .\2 }

enter any four number of your choice :
56
76
82
58
82 is the greatest
PS C:\Users\nitis\OneDrive\Desktop\c language>
```

Q2 write a code to check whether the person is eligible to vote :

```
C 5.c X
C 5.c > main()
1  #include <stdio.h>
2
3  int main() {
4      int age;
5      printf("Enter your age: ");
6      scanf("%d", &age);
7      if(age >= 18) {
8          printf("You are eligible to vote.\n");
9      }
10     else {
11         printf("You are not eligible to vote.\n");
12     }
13     return 0;
14 }
```

PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE PORTS

```
PS C:\Users\nitis\OneDrive\Desktop\c language> cd "c:\Users\nitis\OneDrive\
Enter your age: 76
You are eligible to vote.
PS C:\Users\nitis\OneDrive\Desktop\c language> cd "c:\Users\nitis\OneDrive\
Enter your age: 13
You are not eligible to vote.
PS C:\Users\nitis\OneDrive\Desktop\c language> |
```

Q3 write a code you have to input the selling price and cost price and find the profit or loss of seller :

```
C 4.c x C 2.c
C 4.c > main()
1  #include <stdio.h>
2  int main() {
3
4      int sp, cp, difference;
5
6      printf("enter the cost price , selling price of the product");
7      scanf("%d%d" ,&cp,&sp);
8
9      if(sp>cp)
10         printf("you are in profit ");
11     else if(sp<cp)
12         printf("your are in loss ");
13     else
14         printf("there is no profit no loss in this product ");
15
16     return 0;
17
18 }
```

PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE PORTS

89  
PS C:\Users\nitis\OneDrive\Desktop\c language> cd "c:\Users\nitis\OneDrive\Desktop\c language\" ; if (\$?) { gcc 4.c -o 4 } ; if (\$?) { .\4 }  
enter the cost price , selling price of the product76  
09  
your are in loss  
PS C:\Users\nitis\OneDrive\Desktop\c language> cd "c:\Users\nitis\OneDrive\Desktop\c language\" ; if (\$?) { gcc 4.c -o 4 } ; if (\$?) { .\4 }  
enter the cost price , selling price of the product98  
98  
there is no profit no loss in this product  
PS C:\Users\nitis\OneDrive\Desktop\c language> cd "c:\Users\nitis\OneDrive\Desktop\c language\" ; if (\$?) { gcc 4.c -o 4 } ; if (\$?) { .\4 }  
enter the cost price , selling price of the product98  
50  
your are in loss  
PS C:\Users\nitis\OneDrive\Desktop\c language> cd "c:\Users\nitis\OneDrive\Desktop\c language\" ; if (\$?) { gcc 4.c -o 4 } ; if (\$?) { .\4 }  
enter the cost price , selling price of the product98  
105  
you are in profit  
PS C:\Users\nitis\OneDrive\Desktop\c language> █

Q4 write a code to find you grade of students via CGPA :

```
C 5.c C 6.c X
C 6.c > ...
1  #include <stdio.h>
2
3  int main() {
4      int m1, m2, m3, m4, m5, total;
5      float percentage, cgpa;
6
7      printf("Enter marks of 5 subjects (out of 100):\n");
8      scanf("%d %d %d %d %d", &m1, &m2, &m3, &m4, &m5);
9
10     total = m1 + m2 + m3 + m4 + m5;
11     percentage = (total / 500.0) * 100;
12     cgpa = percentage / 9.5;
13
14     printf("\n----- Student Result ----- \n");
15     printf("Total Marks = %d / 500\n", total);
16     printf("Percentage = %f\n", percentage);
17     printf("CGPA = %f\n", cgpa);
18
19     printf("Category = ");
20     if (percentage >= 90) {
21         printf("Outstanding\n");
22     }
23     else if (percentage >= 75 && percentage <= 89) {
24         printf("Excellent\n");
25     }
26     else if (percentage >= 60 && percentage < 75) {
27         printf("Good\n");
28     }
29     else if (percentage >= 40 && percentage < 60) {
30         printf("Average\n");
31     }
32     else {
33         printf("Fail\n");
34     }
35
36     return 0;
37 }
38

PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE PORTS
PS C:\Users\nitis\OneDrive\Desktop\c language> c
> cd "c:\Users\nitis\OneDrive\Desktop\c language\" ; if ($?) { gcc 6.c -o 6 } ; if ($?) { .\6 }
Enter marks of 5 subjects (out of 100):
98
76
93
65
76

----- Student Result -----
Total Marks = 408 / 500
Percentage = 81.599998
CGPA = 8.589474
Category = Excellent
PS C:\Users\nitis\OneDrive\Desktop\c language> 
```

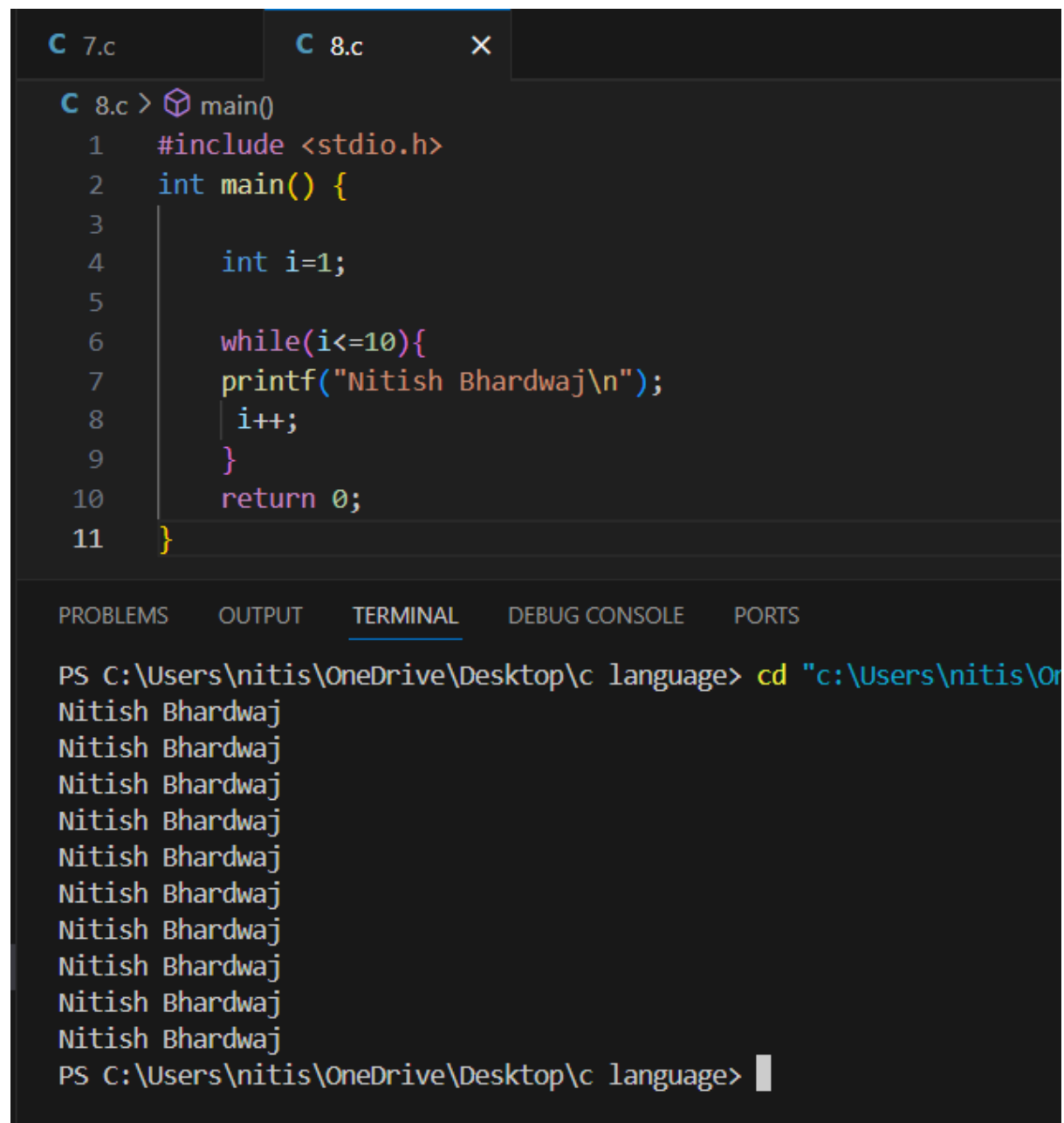
Q5 Write a code to print all the numbers divisible by 5 and 7 between 1 to 100 :

```
C 7.c x
C 7.c > main()
1  #include <stdio.h>
2  int main() {
3
4      int i=1;
5      printf("the number divisible by 5 and 7 are :\n");
6
7      while(i<=100){
8          if(i%5==0 && i%7==0){
9              printf("%d\n",i);
10         }
11         i++;
12     }
13     return 0;
14
15 }
```

PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE PORTS

```
PS C:\Users\nitis\OneDrive\Desktop\c language> cd "c:\Users\nitis\OneDrive\Desktop\c language\" ; if
the number divisible by 5 and 7 are :
3570
PS C:\Users\nitis\OneDrive\Desktop\c language> cd "c:\Users\nitis\OneDrive\Desktop\c language\" ; if
the number divisible by 5 and 7 are :
35
70
PS C:\Users\nitis\OneDrive\Desktop\c language>
```

Q6 write a programme to print your name 10 times using while loops :



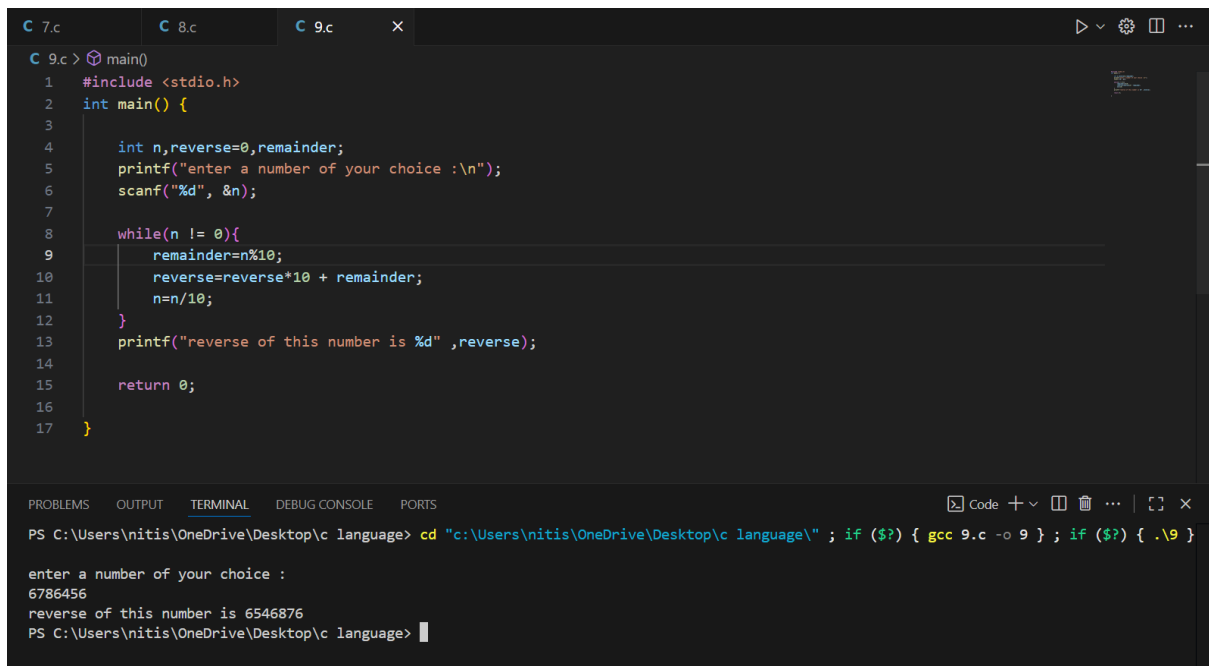
The image shows a screenshot of a C++ IDE with two tabs: '7.c' and '8.c'. The '8.c' tab is active and contains the following code:

```
C 8.c > main()
1  #include <stdio.h>
2  int main() {
3
4      int i=1;
5
6      while(i<=10){
7          printf("Nitish Bhardwaj\n");
8          i++;
9      }
10     return 0;
11 }
```

Below the code editor, there is a terminal window with tabs: 'PROBLEMS', 'OUTPUT', 'TERMINAL', 'DEBUG CONSOLE', and 'PORTS'. The 'TERMINAL' tab is selected and shows the output of the program:

```
PS C:\Users\nitis\OneDrive\Desktop\c language> cd "c:\Users\nitis\OneDrive\Desktop\c language"
Nitish Bhardwaj
Nitish Bhardwaj
Nitish Bhardwaj
Nitish Bhardwaj
Nitish Bhardwaj
Nitish Bhardwaj
Nitish Bhardwaj
Nitish Bhardwaj
Nitish Bhardwaj
Nitish Bhardwaj
PS C:\Users\nitis\OneDrive\Desktop\c language>
```

Q7 write a programme to print reverse of a number :



The screenshot shows a C++ IDE with a file named 9.c. The code in the editor is as follows:

```
1  #include <stdio.h>
2  int main() {
3
4      int n,reverse=0,remainder;
5      printf("enter a number of your choice :\n");
6      scanf("%d", &n);
7
8      while(n != 0){
9          remainder=n%10;
10         reverse=reverse*10 + remainder;
11         n=n/10;
12     }
13     printf("reverse of this number is %d",reverse);
14
15     return 0;
16 }
17
```

The terminal output shows the program being executed. The user enters the number 6786456, and the program outputs the reverse, 6546876.

```
PS C:\Users\nitis\OneDrive\Desktop\c language> cd "c:\Users\nitis\OneDrive\Desktop\c language\" ; if ($?) { gcc 9.c -o 9 } ; if ($?) { .\9 }

enter a number of your choice :
6786456
reverse of this number is 6546876
PS C:\Users\nitis\OneDrive\Desktop\c language>
```