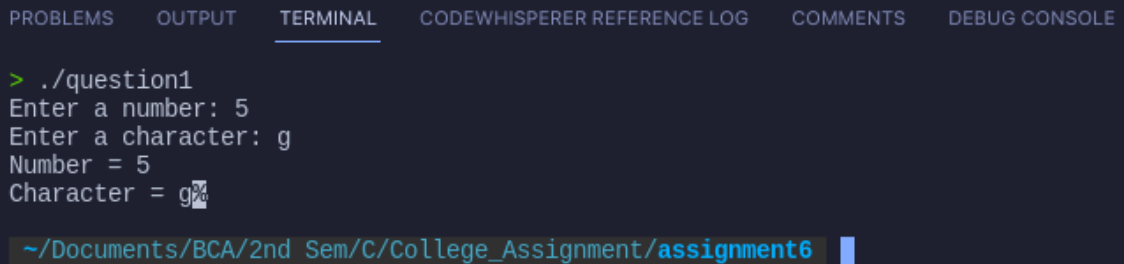


1. WAP to show the usage of whitespace character in scanf() function.

Code

```
1 // WAP to show the usage of whitespace character in scanf() function
2 #include <stdio.h>
3 int main()
4 {
5     int n1;
6     char ch;
7     printf("Enter a number: ");
8     scanf("%d", &n1);
9     printf("Enter a character: ");
10    scanf(" %c", &ch); // Use white-space characters to make a program more readable.
11    printf("Number = %d\n", n1);
12    printf("Character = %c", ch);
13    return 0;
14 }
```

Output



PROBLEMS OUTPUT TERMINAL CODEWHISPERER REFERENCE LOG COMMENTS DEBUG CONSOLE

```
> ./question1
Enter a number: 5
Enter a character: g
Number = 5
Character = g
```

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2. WAP to show the use of ordinary characters in the control string of scanf() function.

Code

```

1 // WAP to show the use of ordinary character in control string of scanf() function
2 #include <stdio.h>
3 int main()
4 {
5     int day, month, year;
6     printf("Enter your date of birth in sequence ");
7     printf("day, month and then year separated by / character: ");
8     scanf("%d/%d/%d", &day, &month, &year);
9     printf("Your date of birth is %d day %d month %d year", day, month, year);
10    return 0;
11 }

```

Output

PROBLEMS OUTPUT TERMINAL CODEWHISPERER REFERENCE LOG COMMENTS DEBUG CONSOLE

```

> ./question2
Enter your date of birth in sequence day, month and then year separated by / character:
Your date of birth is 8 day 6 month 2002 year
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```

- WAP to read marks of a student in a subject. The input marks should be less than 100 (i.e. only two digits).

Code

```

1 // WAP to read marks of a student in a subject. The input marks should be less than 100 (i.e. only two digits)
2 #include <stdio.h>
3 int main()
4 {
5     int marks;
6     printf("Enter marks(<100): ");
7     scanf("%d", &marks);
8     printf("Your Entered Marks: %d", marks);
9     return 0;
10 }

```

Output

```
PROBLEMS OUTPUT TERMINAL CODEWHISPERER REFERENCE LOG COMMENTS DEBUG CONSOLE

> ./question3
Enter marks(<100): 78
Your Entered Marks: 78%
> ./question3
Enter marks(<100): 341
Your Entered Marks: 34%

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```

4. WAP to skip input field by specifying character * in scanf() function.
Code

```
1 // WAP to skip input field by specifying character * in scanf() function
2 #include <stdio.h>
3 int main()
4 {
5     int a, b, c;
6     printf("Enter the value of a,b,c : ");
7     scanf("%d*%d%d", &a, &b, &c);
8     printf("a = %d, b = %d, c = %d", a, b, c);
9     return 0;
10 }
```

Output

```
PROBLEMS OUTPUT TERMINAL CODEWHISPERER REFERENCE LOG COMMENTS DEBUG CONSOLE

> ./question4
Enter the value of a,b,c : 2*3 4
a = 2, b = 3, c = 4%

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```

5. WAP to input string from user and display it on screen.
Code

```

1 // WAP to input string from user and display it on scree.
2 #include <stdio.h>
3 int main() {
4     char string[10]; // Declaring a character array named 'string' to store input
5
6     printf("Enter the string: ");
7     scanf("%9s", string); // Reading a string from user input, with a maximum of 9 characters (+1 for null terminator)
8
9     printf("The string is: %s", string); // Printing the entered string
10
11     return 0;
12 }
13

```

Output

PROBLEMS OUTPUT TERMINAL CODEWHISPERER REFERENCE LOG COMMENTS DEBUG CONSOLE

```

> ./question5
Enter the string: ManishBhusal
The string is: ManishBhu%
> ./question5
Enter the string: Manish Bhusal
The string is: Manish%

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```

- WAP to take input string from user. Your program should allow to input uppercase letter only.

Code

```

1 // WAP to take input string from user. Your program should allow to input uppercase letter only.
2 #include <stdio.h>
3 int main()
4 {
5     char string[10];
6     printf("Enter your name in uppercase: ");
7     scanf("%[A-Z]", string);
8     printf("Your name is %s", string);
9     return 0;
10 }

```

Output

```
PROBLEMS  OUTPUT  TERMINAL  CODEWHISPERER REFERENCE LOG  COMMENTS  DEBUG CONSOLE

> ./question6
Enter your name in upercase: MANISH
Your name is MANISH%
> ./question6
Enter your name in upercase: manish
Your name is %
> ./question6
Enter your name in upercase: MANisH
Your name is MAN%

~/Documents/BCA/2nd Sem/C/College_Assignment/assignment6
```

7. WAP to read a string with multiple words (i.e. with space) using scanf() function and display on the screen.

Code

```
1  /* WAP to read string with multiple words (i.e. with space)
2  using scanf() function and display on the screen */
3  #include <stdio.h>
4  int main()
5  {
6      char string[100];
7      printf("Enter Your Full Name: ");
8      scanf("%[^\n]", string); // Read characters until a newline is encountered
9      printf("Your Full Name is: %s", string);
10     return 0;
11 }
```

Output

```
PROBLEMS  OUTPUT  TERMINAL  CODEWHISPERER REFERENCE LOG  COMMENTS  DEBUG CONSOLE

> ./question7
Enter Your Full Name: Manish Bhusal
Your Full Name is: Manish Bhusal%

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```

8. What is the output of the following program?

Code

```
C question8.c > main()
1 // What is the output of the following program?
2 #include <stdio.h>
3 int main()
4 {
5     int n = 1234;
6     printf(" n=%d", n);
7     printf("\n n=%6d", n);
8     printf("\n n=%2d", n);
9     printf("\n n=%-6d", n);
10    printf("\n n=%06d", n);
11    return 0;
12 }
```

Output

```
PROBLEMS OUTPUT TERMINAL CODEWHISPERER REFERENCE LOG COMMENTS DEBUG CONSOLE

> ./question8
n=1234
n= 1234
n=1234
n=1234
n=001234

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```

9. What is the output of the following program?

Code

```
C question9.c > main()
1 // What is the output of the following program?
2 #include <stdio.h>
3 int main()
4 {
5     char ch = 'A';
6     printf("ch=%2c", ch);
7     printf("\nch=%5c", ch);
8     printf("\nch=%-5c", ch);
9     return 0;
10 }
```

Output

```
PROBLEMS  OUTPUT  TERMINAL  CODEWHISPERER  REFERENCE LOG  COMMENTS  DEB
> ./question9
ch= A
ch=   A
ch=A   %
```

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10. What is the output of the following program?

Code

```
question1.c  question2.c  question3.c  question4.c  ques
question10.c > main()
1 // What is the output of the following program?
2 #include <stdio.h>
3 int main()
4 {
5     char str[10] = "MY NEPAL";
6     printf("%s", str);
7     printf("\n%10s", str);
8     printf("\n%10.6s", str);
9     printf("\n%.4s", str);
10    printf("\n%-10.6s", str);
11    printf("\n%4s", str);
12    return 0;
13 }
```

Output

```
PROBLEMS  OUTPUT  TERMINAL  CODEWHISPERER  REFERENCE LOG  COMMENTS  DEB
> ./question10
MY NEPAL
  MY NEPAL
    MY NEP
MY N
MY NEP
MY NEPAL%
~/Documents/BCA/2nd Sem/C/College_Assignment/assignment6
```

11. WAP to display an integer, a float and a string value using a single printf() function.

Code


```
question1.c question2.c question3.c question4.c question5.c question6.c question7.c
question11.c > main()
1  /* WAP to display an integer, a float and a string value
2  using single printf() function */
3  #include <stdio.h>
4  int main()
5  {
6      int n = 6;
7      float f = 45.23;
8      char name[] = "Manish";
9      printf("integer value is %d\t float value is %f\t string value is %s", n, f, name);
10     return 0;
11 }
```

Output

```
PROBLEMS OUTPUT TERMINAL CODEWHISPERER REFERENCE LOG COMMENTS DEBUG CONSOLE
> ./question11
integer value is 6          float value is 45.230000          string value is Manish
~/Documents/BCA/2nd Sem/C/College_Assignment/assignment6
```