

Day2:

=====

Answer the following questions:

-----

1- Receive numbers from the user, and exit when the sum exceeds 100.

```
1  #include <stdio.h>
2  int main()
3  {   int x,sum=0;
4      printf("enter the first number :) ");
5      while(sum<=100)
6      {
7
8          scanf("%d",&x);
9          sum +=x;
10         if(sum>100)
11             {printf("sum exceed 100 .....");
12              break;}
13         printf("total sum = %d\n ",sum);
14     }
15
16     return 0;|
17 }
```

input

```
enter the first number :) 10
total sum = 10
60
total sum = 70
50
sum exceed 100 .....
```

## 2- Simple Menu with 3 choices.

```
#include <stdio.h>
int main()
{   int ch,count;
    do{
        printf("Simple Menu...:) \n");
        printf("press 1 to order a meal \n");
        printf("press 2 to get the cost \n");
        printf("press 3 to exit \n");
        printf("Enter your choice :) ");
        scanf("%d",&ch);
        switch(ch){
            case 1:
                printf("Enter number of meals :)");
                scanf("%d",&count);
                printf("welcome :) \n you ordered %d of meals ..\n",count);
                break;
            case 2:
                printf("one meal=100\n Enter num of your meals" );
                scanf("%d",&count);
                printf("your cost = %d\n",count*100);
                break;
            case 3:
                printf("Thanks :) \n");
                break;
            default:
                printf("Invalid choice. Please try again.\n");
        }
    }while(ch!=3);
}
```

```
Simple Menu...:)
press 1 to order a meal
press 2 to get the cost
press 3 to exit
Enter your choice :) 1
Enter number of meals :)2
welcome :)
you ordered 2 of meals ..
Simple Menu...:)
press 1 to order a meal
press 2 to get the cost
press 3 to exit
Enter your choice :) 2
one meal=100
Enter num of your meals2
your cost = 200
Simple Menu...:)
press 1 to order a meal
press 2 to get the cost
press 3 to exit
Enter your choice :) 3
Thanks :)
```

```
Simple Menu...:)
press 1 to order a meal
press 2 to get the cost
press 3 to exit
Enter your choice :) 4
Invalid choice. Please try again.
Simple Menu...:)
press 1 to order a meal
press 2 to get the cost
press 3 to exit
Enter your choice :) █
```

#### 4- C Program to Find the Largest Number Among Three Numbers

```
1  #include <stdio.h>
2  int main()
3  {
4      printf("please enter three numbers..");
5      int x,y,z;
6      scanf(" %d %d %d",&x,&y,&z);
7      if( x>y && x>z)
8          printf("largest is x :");
9      if( y>x && y>z)
10         printf("largest is y :");
11      if( z>x && z>y)
12         printf("largest is z :");
13      return 0;
14  }
```

input

```
please enter three numbers.. 20 80 100
largest is z :)

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

#### 5- C Program to Generate Multiplication Table "1\*3=3, 2\*3=6, ..."

```
1  #include <stdio.h>
2  int main()
3  {
4
5  int num;
6  printf("enter num for show multiplication.. ");
7  scanf("%d",&num);
8  for (int i = 1; i <= 12; i++) {
9      printf("%d * %d = %d\n", i, num, i * num);
10 }
11 return 0;
12 }
```

input

```
enter num for show multiplication.. 6
1 * 6 = 6
2 * 6 = 12
3 * 6 = 18
4 * 6 = 24
5 * 6 = 30
6 * 6 = 36
7 * 6 = 42
8 * 6 = 48
9 * 6 = 54
10 * 6 = 60
11 * 6 = 66
12 * 6 = 72
```

## 6- C Program to Check Whether a Character is an Alphabet or not

```
main.c
1  #include <stdio.h>
2  int main()
3  {
4      char x;
5      printf("enter char to check..");
6      scanf("%c",&x);
7      if ((x >= 'a' && x <= 'z') || (x >= 'A' && x <= 'Z')) {
8          printf("%c is an alphabet.\n", x);
9      } else {
10         printf("%c is not an alphabet.\n", x);
11     }
12     |
13     return 0;
14 }
```

input

```
enter char to check..2
2 is not an alphabet.

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

7- C Program to count number of Alphabets & number of words in a sentence. (word count)

```
1  #include <stdio.h>
2  #include <ctype.h>
3  int main() {
4      char ch;
5      int alphabetCount = 0, wordCount = 0;
6      int inWord = 0;
7
8      printf("Enter a sentence: ");
9      while ((ch = getchar()) != '\n') {
10         if ((ch >= 'a' && ch <= 'z') || (ch >= 'A' && ch <= 'Z')) {
11             alphabetCount++;
12             if (!inWord) {
13                 wordCount++;
14                 inWord = 1;
15             }
16         } else {
17             inWord = 0;
18         }
19     }
20     printf("Number of alphabets: %d\n", alphabetCount);
21     printf("Number of words: %d\n", wordCount);
22     return 0;
}
```

input

Enter a sentence: tyd drg kfyukds  
Number of alphabets: 13  
Number of words: 3