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Q1:

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

```
#include<stdlib.h>
```

```
#include<time.h>
```

```
int main()
```

```
{
```

```
    int dice1, dice2, total;
```

```
    srand(time(NULL));
```

```
    dice1 = rand() %6 + 1;
```

```
    dice2 = rand() %6 + 1;
```

```
    total = dice1 + dice2;
```

```
    if (total == 7 || total == 11){
```

```
        printf("Player Wins \n Winner Winner Chicken Dinner");
```

```
    }
```

```
    else {
```

```
        printf("First Dice is: %d \n",dice1);
```

```
        printf("Second Dice is: %d \n",dice2);
```

```
        printf("thank you for playing");
```

```
    }
```

```
}
```

```
1 /*****
2
3 Online C Compiler.
4 Code, Compile, Run and Debug C program online.
5 Write your code in this editor and press "Run" button to compile and execute
6
7 *****/
8
9 #include <stdio.h>
10 #include<stdlib.h>
11 #include<time.h>
12
13 int main()
14 {
15     int dice1, dice2, total;
16     srand(time(NULL));
17
18     dice1 = rand() %6 + 1;
19     dice2 = rand() %6 + 1;
20     total = dice1 + dice2;
21     if (total == 7 || total == 11){
22         printf("Player Wins \n Winner Winner Chicken Dinner");
23     }
24     else {
25         printf("First Dice is: %d \n",dice1);
26         printf("Second Dice is: %d \n",dice2);
27         printf("thank you for playing");
28     }
29 }
30
31 }
32
```

input

Player Wins
Winner Winner Chicken Dinner

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

Q2:

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

int main(){
int a[4],number,x;
printf("Enter Decimal number between 0 and 32: \n");

scanf("%d",&number);
if (number > 0 && number < 32){
for(x=0;number>0;x++)
{
a[x]=number%2;
number=number/2;
}
printf("Decimal to Binary=");
for(x=x-1;x>=0;x--)
{
printf("%d",a[x]);
}
}
else printf("out of range");

return 0;
{
```

```
8 *****
9 #include<stdio.h>
10 #include<stdlib.h>
11
12 int main(){
13     int a[4],number,x;
14     printf("Enter Decimal number between 0 and 32: ");
15
16     scanf("%d",&number);
17     if (number > 0 && number < 32){
18         for(x=0;number>0;x++){
19             {
20                 a[x]=number%2;
21                 number=number/2;
22             }
23             printf("\nBinary of Given Number is=");
24             for(x=x-1;x>=0;x--){
25                 {
26                     printf("%d",a[x]);
27                 }
28             }
29             else printf("out of range");
30
31         return 0;
32     } }
```

input

```
Enter Decimal number between 0 and 32: 31

Binary of Given Number is=11111

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

Q3

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

```
int main()
```

```
{
```

```
    int number, count = 0;
```

```
printf("Enter an integer: ");  
scanf("%d", &number);  
  
do  
{  
    count++;  
    number /= 10;  
} while(number != 0);  
  
printf("Number of digits: %d", count);  
  
return 0;  
}
```

```

8  ****
9  #include <stdio.h>
10
11 int main()
12 {
13     int number, count = 0;
14
15     printf("Enter an integer: ");
16     scanf("%d", &number);
17
18     do
19     {
20         count++;
21         number /= 10;
22     } while(number != 0);
23
24     printf("Number of digits: %d", count);
25
26     return 0;
27 }

```

input

```

Enter an integer: 1313
Number of digits: 4

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

```

Q4)

```
#include<stdio.h>

int main(){

int choice;

int hamburger=0,hotdog=0,fries=0,drink=0,exit;


do {

printf("What do you want to eat today?\n");

printf("1. Hamburger\n");

printf("2. Hotdog\n");

printf("3. Drinks\n");

printf("4. Fries\n");

printf("5. Exit\n");

printf("Enter your choice: ");

scanf("%d", &choice);


switch(choice){

case 1:

printf("You ordered a hamburger\n");

hamburger++;

break;

case 2:

printf("You ordered a hotdog\n");

hotdog++;

break;

case 3:

printf("You ordered drinks\n");

drink++;

break;

case 4:
```

```
printf("You ordered fries\n");
```

```
fries++;
```

```
break;
```

```
case 5:
```

```
printf("Order finished, thank you!\n");
```

```
break;
```

```
default:
```

```
printf("Wrong choice! try again: ");
```

```
break;
```

```
}
```

```
} while (choice != 5);
```

```
int total = (hamburger5) + (hotdog4) + (fries3)+ (drink2);
```

```
float tax = 0.13 * total;
```

```
float grandtotal = tax + total;
```

```
printf("You ordered %d hamburger(s), %d hotdog(s), %d fries, %d drink(s). Price: $%d HST: $%.2f Total: $%.2f",hamburger,hotdog,fries,drink,total,tax,grandtotal);
```

```
return 0;
```

```
}
```



```

26 printf("You ordered a hamburger\n");
27 hamburger++;
28 break;
29 case 2:
30 printf("You ordered a hotdog\n");
31 hotdog++;
32 break;
33 case 3:
34 printf("You ordered drinks\n");
35 drink++;
36 break;
37 case 4:
38 printf("You ordered fries\n");
39 fries++;
40 break;
41 case 5:
42 printf("Order finished, thank you!\n");
43 break;
44 default:
45 printf("Wrong choice! try again: ");
46 break;
47 }
48 } while (choice != 5);
49
50 int total = (hamburger*5) + (hotdog*4) + (fries*3) + (drink*2);
51
52 float tax = 0.13 * total;
53
54 float grandtotal = tax + total;
55
56 printf("You ordered %d hamburger(s), %d hotdog(s), %d fries, %d drink(s). Price: $%d HST: $%.2f Total: $%.2f\n", hamburger, hotdog, fries, drink, total, tax, grandtotal);
57 return 0;
58 }

```

input

```

What do you want to eat today?
1. Hamburger
2. Hotdog
3. Drinks
4. Fries
5. Exit
Enter your choice: 5
Order finished, thank you!
You ordered 1 hamburger(s), 1 hotdog(s), 1 fries, 1 drink(s). Price: $14 HST: $1.82 Total: $15.82

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

```