Decision Control In C Programming:

1. Decision Control Instruction(if, else, nested if, nested if-else, (exp1)?exp2:exp3)
2. Iterative Control Instruction (Loop Or Repetitive Control Instruction) (while, do while, for)
3. Switch Case Control Instruction (switch, case)
4. Goto Control Instruction (goto)
5. Continue and Break Instruction

If Else Statement:

If and else keyword is used for conditional statement. Where we can decide whether a particular statement will be executed by compiler or not.

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

int main()
{
    int i;

    printf("Enter Value Of I : ");
    scanf("%d",&i);

    if(i >= 10)
        printf("Value : %d",(i * 10));

    getch();
}
```

```
E:\C CODE\DemoC.exe
Enter Value Of I : 20
Value : 200
```

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

int main()
{
    int i;

    printf("Enter Value Of I : ");
    scanf("%d",&i);

    if(i >= 10)
        printf("Value : %d",(i * 10));

    getch();
}
```

```
E:\C CODE\DemoC.exe
Enter Value Of I : 2

--------------------------------
Process exited after 8.121 seconds with return value 0
Press any key to continue . . .
```

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

int main()
{
    int i;

    printf("Enter Value Of I : ");
    scanf("%d",&i);

    if(i >= 10)
    {
        printf("Value : %d",(i * 10));
    }
    else
    {
        printf("Value : %d",(i * 20));
    }
    getch();
}
```

```
E:\C CODE\DemoC.exe
Enter Value Of I : 12
Value : 120
```

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

int main()
{
	int i;

	printf("Enter Value Of I : ");
	scanf("%d",&i);

	if(i >= 10)
	{
		printf("Value : %d",(i * 10));
	}
	else
	{
		printf("Value : %d",(i * 20));
	}
	getch();
}
```

```
E:\C CODE\DemoC.exe
Enter Value Of I : 9
Value : 180
```

Nested If & Nested If Else Statement:

Nested if and nested if else define if you want more decision for execution of a statement then we used nested if and nested if else.

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

int main()
{
	int i;

	printf("Enter Value Of I : ");
	scanf("%d",&i);

	if(i > 50)
	{
		if(i % 2 == 0)
		{
			printf("value Of %d * 40 : %d",i,(i * 40));
		}
	}
	getch();
}
```

```
E:\C CODE\DemoC.exe
Enter Value Of I : 51

--------------------------------
Process exited after 8.787 seconds with return value 0
Press any key to continue . . .
```

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

int main()
{
	int i;

	printf("Enter Value Of I : ");
	scanf("%d",&i);

	if(i > 50)
	{
		if(i % 2 == 0)
		{
			printf("value Of %d * 40 : %d",i,(i * 40));
		}
	}
	getch();
}
```

```
E:\C CODE\DemoC.exe
Enter Value Of I : 54
value Of 54 * 40 : 2160
```

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

int main()
{
	int i;

	printf("Enter Value Of I : ");
	scanf("%d",&i);

	if(i > 50)
	{
		if(i % 2 == 0)
		{
			printf("value Of %d * 40 : %d",i,(i * 40));
		}
		else
		{
			printf("value Of %d * 30 : %d",i,(i * 30));
		}
	}
	getch();
}
```

```
E:\C CODE\DemoC.exe
Enter Value Of I : 53
value Of 53 * 30 : 1590
--------------------------------
Process exited after 12.46 seconds with return value 0
Press any key to continue . . .
```

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

int main()
{
	int i;

	printf("Enter Value Of I : ");
	scanf("%d",&i);

	if(i > 50)
	{
		if(i % 2 == 0)
		{
			printf("value Of %d * 40 : %d",i,(i * 40));
		}
		else
		{
			printf("value Of %d * 30 : %d",i,(i * 30));
		}
	}
	getch();
}
```

```
E:\C CODE\DemoC.exe
Enter Value Of I : 56
value Of 56 * 40 : 2240
--------------------------------
Process exited after 43.64 seconds with return value 0
Press any key to continue . . .
```

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

int main()
{
    int i ;

    printf("Enter Value Of I : ");
    scanf("%d",&i);

    if(i > 50)
    {
        if(i % 2 == 0)
        {
            printf("value Of %d * 40 : %d",i,(i * 40));
        }
        else
        {
            printf("value Of %d * 30 : %d",i,(i * 30));
        }
    }
    else
    {
        if(i % 3 == 0)
        {
            printf("value Of %d * 50 : %d",i,(i * 50));
        }
        else
        {
            printf("value Of %d * 20 : %d",i,(i * 20));
        }
    }
    getch();
}
```

```
E:\C CODE\DemoC.exe
Enter Value Of I : 25
value Of 25 * 20 : 500
--------------------------------
Process exited after 12.79 seconds with return value 0
Press any key to continue . . .
```

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

int main()
{
    int i ;

    printf("Enter Value Of I : ");
    scanf("%d",&i);

    if(i > 50)
    {
        if(i % 2 == 0)
        {
            printf("value Of %d * 40 : %d",i,(i * 40));
        }
        else
        {
            printf("value Of %d * 30 : %d",i,(i * 30));
        }
    }
    else
    {
        if(i % 3 == 0)
        {
            printf("value Of %d * 50 : %d",i,(i * 50));
        }
        else
        {
            printf("value Of %d * 20 : %d",i,(i * 20));
        }
    }
    getch();
}
```

```
E:\C CODE\DemoC.exe
Enter Value Of I : 27
value Of 27 * 50 : 1350
--------------------------------
Process exited after 12.9 seconds with return value 0
Press any key to continue . . .
```

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

int main()
{
    int i ;

    printf("Enter Value Of I : ");
    scanf("%d",&i);

    (i > 30)?printf("value %d * 30 : %d",i,i * 20):printf("value %d * 40 : %d",i,i * 40);

    getch();
}
```

```
E:\C CODE\DemoC.exe
Enter Value Of I : 25
value 25 * 40 : 1000
```

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

int main()
{
    int i ;

    printf("Enter Value Of I : ");
    scanf("%d",&i);

    (i > 30)?printf("value %d * 30 : %d",i,i * 20):printf("value %d * 40 : %d",i,i * 40);

    getch();
}
```

```
E:\C CODE\DemoC.exe
Enter Value Of I : 36
value 36 * 30 : 720
--------------------------------
Process exited after 15.18 seconds with return value 0
Press any key to continue . . .
```