

Logic Building Assignment: 1

1. Program to divide two numbers.

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

```
int Divide (int iNo1, int iNo2)
```

```
{
```

```
    int iAns = 0;
```

```
    if (iNo2 < 0)
```

```
    {
```

```
        return -1;
```

```
    }
```

```
    iAns = iNo1 / iNo2;
```

```
    return iAns;
```

```
}
```

```
int main()
```

```
{
```

```
    int iValue1 = 15, iValue2 = 5;
```

```
    int iRet = 0;
```

```
    iRet = Divide (iValue1, iValue2);
```

```
    printf ("Division is %d", iRet);
```

```
    return 0;
```

```
}
```

description: In the main function, function Divide should be called. This function accepts two integer values. Also function Divide assigns to the variable iRet.

In a function body, checking the condition i.e. if $iNo2 < 0$ then return -1. Actual division is assigned to the iAns variable. It would be return that value of the iAns variable.

2. Program to print 5 times "Marvellous" on screen.

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

```
void Display()
```

```
{
```

```
    int i = 0;
```

```
    for (i = 1; i <= 5; i++)
```

```
    {
```

```
        printf("Marvellous\n");
```

```
    }
```

```
}
```

```
int main()
```

```
{
```

```
    Display();
```

```
    return 0;
```

```
}
```

Description - In main function, function Display should be called. This function prints 5 times as "Marvellous".

3. Program to print 5 to 1 numbers on screen.

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

```
void Display()
```

```
{
```

```
    int i=0;
```

```
    //int i=5;
```

```
    for (i=5; i>=1; i--)
```

```
{
```

```
        printf ("%d", i);
```

```
        //i++;
```

```
}
```

```
}
```

```
int main()
```

```
{
```

```
    Display();
```

```
    return 0;
```

```
}
```

description - In main function, function display should be called. The function body prints 5 to 1 numbers on screen.

4. Accept one number and check whether it is divisible by 5 or not.

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

```
typedef int BOOL;
```

```
#define TRUE 1
```

```
#define FALSE 0
```

```
int check(int ino)
{
    if (ino%5==0)
    {
        return TRUE;
    }
    else
    {
        return FALSE;
    }
}
```

```
int main()
{
    int iValue = 0;
    bool bRet = FALSE;
    printf("Enter number");
    scanf("%d", &iValue);
    bRet = check(iValue);
    if (bRet == TRUE)
    {
        printf("Divisible by 5");
    }
    else
    {
        printf("Not divisible by 5");
    }
    return 0;
}
```

description: In main function, accept one number from user & passing that number to the function check. After that, this function is assigned to the variable bRet of type BOOL, it returns either TRUE or FALSE. In function check, it will check the given number is divisible by 5 or not. If the ~~bRet~~ value is divisible by 5, it will print divisible by 5 otherwise it will print not divisible by 5.

5. Accept one number from user and print that number of * on screen.

```
#include <stdio.h>

void Accept (int iNo)
{
    int iCnt = 0;
    for (iCnt; iCnt <= iNo; iCnt++)
    {
        printf ("*");
    }
}

int main()
{
    int iValue = 0;
    iValue = 5;
    Accept (iValue);
    return 0;
}
```

Description: In main function, function Accept contains integer value as 5.

function accept prints the star as 5 times.