**Logic Building Assignment: 1**

Write separate application program in separate file and execute it practically.

Write each program in the class notebook with description.

1. **Program to divide two numbers**

#include <stdio.h>

// Function to take two integers, divide them and return the result

float divideTwoNumbers() {

    int num1, num2;

    float result;

    printf("Enter the dividend (integer): ");

    scanf("\_\_", &num1);

    printf("Enter the divisor (integer): ");

    scanf("\_\_", &num2);

    // Check for division by zero

    if (num2\_\_\_\_\_\_\_) {

        printf("Error: Division by zero is not allowed.\n");

        return -1;

    }

    result = (\_\_\_\_\_)num1 / num2;

    return \_\_\_;

}

int main() {

    float result = divideTwoNumbers();

    // If result is not -1, print the division result

    if (result != -1) {

        printf("Result = \_\_\_\n", result);

    }

    \_\_\_\_\_\_\_ 0;

}

1. **program to print 5 times “Fabulous ” on console/screen**

#\_\_\_\_\_\_\_\_<\_\_\_\_>

void display()

{

    int iCnt =0;

    for(iCnt =1;i<=\_\_;i++)

    {

        \_\_\_\_("Fabulous");

    }

}

\_\_\_main()

{

    display();

    return 0;

}

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

#include<stdio.h>

\_\_\_\_\_ display()

{

    \_\_\_ iCnt =0;

    \_\_\_\_\_\_i = 5;

    for(\_\_;\_\_;\_\_)

    {

        printf("%d",i);

        i++;

    }

}

int main()

{

    display();

    return 0;

}

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

#include<stdio.h>

typedef int BOOL;

#define TRUE 1

#define FALSE \_\_\_\_\_

\_\_\_\_\_check(\_\_\_\_)iNo

{

    if((\_\_\_\_\_%5)==0)

    {

        return TRUE;

    }

    else

    {

        return FALSE;

    }

}

int main()

{

    int iValue=0;

    BOOL bRet = FALSE;

    printf("Enter number :\n");

    scanf("\_\_\_\_\_",\_\_\_iValue);

    bRet = Check(iValue);

    if(bRet==TRUE){

        printf("Divisible by 5\n");

    } else {

        printf("Not divisible by 5 \n");

    }

    return 0;

}

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

#include<stdio.h>

void display(int iNo)

{

    int iCnt = 0;

    for(\_\_\_\_;\_\_\_\_\_;\_\_\_\_)

    {

        printf("\*");

    }

}

int main()

{

    int iValue =0;

    iValue =5;

    display(iValue);

    return 0;

}