**LAB 4 TASKS**

**Task 4:**

**#include <stdio.h>**

**int main() {**

**int score;**

**printf("Enter student Score: ");**

**scanf("%d", &score);**

**if(score>=90){**

**printf("Grade A\n");**

**} else if(score>=80){**

**printf("Grade B\n");**

**} else if(score>=70){**

**printf("Grade C\n");**

**} else if(score>=60){**

**printf("Grade D\n");**

**} else**

**printf("Grade F\n");**

**return 0;**

**}**

**Task 5:**

**#include <stdio.h>**

**int main() {**

**int color;**

**printf("Enter traffic light color(1=Red, 2=Yellow, 3=Green) ");**

**scanf("%d", &color);**

**switch (color){**

**case 1:**

**printf("Stop\n");**

**break;**

**case 2:**

**printf("Ready\n ");**

**break;**

**case 3:**

**printf(" Go\n");**

**break;**

**default:**

**printf("invalid color enter between 1,2,3\n ");**

**}**

**return 0;**

**}**

**Task 6:**

**#include <stdio.h>**

**int main() {**

**char op;**

**int a, b;**

**printf("Enter first number: ");**

**scanf("%d", &a);**

**printf("Enter an operator (+, -, \*, /): ");**

**scanf(" %c", &op); // notice space before %c to ignore newline**

**printf("Enter second number: ");**

**scanf("%d", &b);**

**switch(op) {**

**case '+':**

**printf("Result = %d\n", a + b);**

**break;**

**case '-':**

**printf("Result = %d\n", a - b);**

**break;**

**case '\*':**

**printf("Result = %d\n", a \* b);**

**break;**

**case '/':**

**if (b != 0)**

**printf("Result = %d\n", a / b);**

**else**

**printf("Error: Division by zero!\n");**

**break;**

**default:**

**printf("Invalid operator!\n");**

**}**

**return 0;**

**}**

**Task 7:**

**#include <stdio.h>**

**Int main() {**

**Int year;**

**Printf(“Enter a year: “);**

**Scanf(“%d”, &year);**

**If ((year % 4 == 0 && year % 100 != 0) || (year % 400 == 0)) {**

**Printf(“%d is a Leap Year\n”, year);**

**} else {**

**Printf(“%d is Not a Leap Year\n”, year);**

**}**

**Return 0;**

**}**

**Task 8:**

**#include <stdio.h>**

**Int main() {**

**Int a;**

**Printf(“Enter number a:”);**

**Scanf(“%d”,&a );**

**If (a>0){**

**Printf(“Your number is positive”);**

**} else if (a<0){**

**Printf(“your number is negative”);**

**} else**

**Printf(“number is zero”);**

**Return 0;**

**}**

**Task 9 :**

**#include <stdio.h>**

**int main() {**

**int day;**

**printf("Enter number 1--7:");**

**scanf("%d",&day);**

**switch(day){**

**case 1:**

**printf("Monday");**

**break;**

**case 2:**

**printf("Tuesday");**

**break;**

**case 3:**

**printf("Wednesday");**

**break;**

**case 4:**

**printf("Thursday");**

**break;**

**case 5:**

**printf("Friday");**

**break;**

**case 6:**

**printf("Saturday");**

**break;**

**case 7:**

**printf("Sunday");**

**break;**

**default:**

**printf("invalid number please Enter number 1---7:");**

**}**

**return 0;**

**}**

**Task 10:**

**#include <stdio.h>**

**int main() {**

**int password;**

**int Correct password;**

**printf("Enter your password");**

**scanf("%d", & password);**

**if (password == Correct password){**

**printf("Access Granted");**

**} else {**

**printf("Access Denied");**

**}**

**return 0;**

**}**