

PROGRAMMING FUNDAMENTALS

LAB:4

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Roll No. :25k-0920

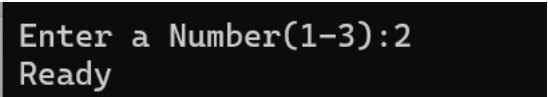
Task 4:

```
#include<stdio.h>
int main(){
    int P;
    printf("Enter Your Percentage:");
    scanf("%d",&P);
    if(P>=90){
        printf("Your Grade is A");
    }
    else if(P>=80 && P<90){
        printf("Your Grade is B");
    }
    else if(P>=70 && P<80){
        printf("Your Grade is C");
    }
    else if(P>=60 && P<70){
        printf("Your Grade is D");
    }
    else if(P<60){
        printf("Your Grade is F");
    }
    else{
        printf("Invalid Percentage");
    }
}
```

```
Enter Your Percentage:75
Your Grade is C
```

Task 5:

```
#include<stdio.h>
int main(){
    int num;
    printf("Enter a Number(1-3):");
    scanf("%d",&num);
    switch(num){
        case 1:
            printf("Stop");
            break;
        case 2:
            printf("Ready");
            break;
        case 3:
            printf("Go");
            break;
        default:
            printf("Please Enter Number(1-3)");
    }
    return 0;
}
```



```
Enter a Number(1-3):2
Ready
```

Task 6:

```
#include<stdio.h>
int main(){
    int num1,num2;
    char op;
    printf("Enter Number 1:");
    scanf("%d",&num1);
    printf("Enter Number 2:");
    scanf("%d",&num2);
    printf("Enter a Operator(+,-,*,/):\n");
    scanf(" %c",&op);
    switch(op){
        case '+':
            printf("Sum of Number 1 and Number 2 is:%d ",num1+num2);
            break;
```

```

        case '-':
printf("Differnce between Number 1 and Number 2 is:%d",num1-num2);
        break;
        case '*':
printf("Multiplication of Number 1 and Number 2 is: %d",num1*num2);
        break;
        case '/':
printf("Division of Number 1 and Number 2 is: %d",num1/num2);
        break;
        default:
printf("Please Enter Correct Operator");
    }
    return 0;
}

```

```

Enter Number 1:3
Enter Number 2:6
Enter a Operator(+,-,*,/):
-
Differnce between Number 1 and Number 2 is:-3

```

Task 7:

```

#include <stdio.h>
int main() {
    int year;

    printf("Enter a year: ");
    scanf("%d", &year);

    if ((year % 400 == 0) || ((year % 4 == 0) && (year % 100 != 0))) {
        printf("%d is a Leap Year.\n", year);
    } else {
        printf("%d is NOT a Leap Year.\n", year);
    }
    return 0;
}

```

```

Enter a year: 2022
2022 is NOT a Leap Year.

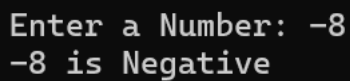
```

Task 8:

```
#include <stdio.h>
int main() {
    int num;

    printf("Enter a Number: ");
    scanf("%d", &num);

    if (num>0){
        printf("%d is Positive",num);
    }
    else if (num<0) {
        printf("%d is Negative", num);
    }
    else{
        printf("%d is zero", num);
    }
    return 0;
}
```



```
Enter a Number: -8
-8 is Negative
```

Task 9:

```
#include <stdio.h>
int main() {
    int num;
    printf("Enter a number (1-7): ");
    scanf("%d", &num);

    switch(num) {
        case 1:
            printf("Monday\n");
            break;
        case 2:
            printf("Tuesday\n");
            break;
        case 3:
            printf("Wednesday\n");
            break;
        case 4:
            printf("Thursday\n");
            break;
    }
```

```

    case 5:
        printf("Friday\n");
        break;
    case 6:
        printf("Saturday\n");
        break;
    case 7:
        printf("Sunday\n");
        break;
    default:
        printf("Invalid input! Please enter a number between 1 and 7.\n");
}
return 0;
}

```

```

Enter a number (1-7): 5
Friday

```

Task 10:

```

#include <stdio.h>
int main() {
    int password;
    int predefined = 1234; // You can change this to any value you like

    printf("Enter the password: ");
    scanf("%d", &password);

    if (password == predefined) {
        printf("Access Granted\n");
    } else {
        printf("Access Denied\n");
    }
    return 0;
}

```

```

Enter the password: 1234
Access Granted

```