Q.1. wap in c to find greatest number between three numbers

```c
#include"stdio.h"
main(){
int a,b ,c;
printf("Enter three number :");
scanf("%d%d%d",&a,&b,&c);
int x=(a>b)?(a>c)?a:c:(b>c)?b:c;
printf("max number is :%d",x);
```

Q.2. wap in c to find even or odd number

```c
#include"stdio.h"
main(){
        int a;
        printf("enter your number:");
        scanf("%d",&a);
        if(a%2==0){
                printf("number is even ");
        }
        else{
                printf("number is odd");
}
}
```

Q.3.wap in c to check entered number is positive or negative

```c
#include"stdio.h"
```

```
main(){

        int a;

        printf("enter your number:");

        scanf("%d",&a);

        if(a>=0){

                printf("your entered number is positive");

        }
        else{

                printf("your entered number is negative");

        }
}
```

Q.4.wap in c to enter year and check input year is leap year or not.

First way

```
#include<stdio.h>

main(){

        int year;

        printf("Enter your year:");

        scanf("%d",&year);


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

                printf("Your entered year %d is Leap year :",year);

        }
        else{

                printf("Your entered year %d is Leap year :",year);
```

```
        }
}
```

Second way

```c
#include"stdio.h"
main(){
        int year;
        printf("enter your year:");
        scanf("%d",&year);
        if(year%400==0){
                printf(" your entered year %d is leap year \n ",year);
        }else if(year%100==0){
                printf(" your entered year %d is not leap year \n",year);
        }
        else if(year%4==0){
                printf(" your entered year %d is leap year \n ",year);
        }else{
                printf("your entered year %d is not leap year ",year);
        }

}
```

Q.5. wap in c to input a character and check character is in uppercase or in lowercase.

```c
#include"stdio.h"
main(){
        char ch;
        printf("Enter your character:");
        scanf("%c",&ch);


        if(ch>='A'&& ch<='Z'){
                printf("Entered character %c is Uppercase",ch);
        }else if(ch>='a' && ch<='z'){
                printf("Entered character %c is lowercase",ch);
        }
        else{
                printf("Entered character %c is not alphabetical ",ch);
        }
}
```

Q.6. wap in c to check that give CHARACTER is vowel or consonant

```c
#include"stdio.h"
main(){
        char ch;
        printf("Entered your character:- ");
        scanf("%c",&ch);
        if((ch>='A'&& ch<='Z')||(ch>='a' && ch<='z')){
```

```c
        if(ch=='a'||ch=='A'||
ch=='e'||ch=='E'||ch=='i'||ch=='I'||ch=='o'||ch=='O'||ch=='u'||ch=='U'){
            printf("Your Entered character %c is Vowel",ch);
        }else{
            printf("Entered character %c is Consonant",ch);
        }
    }else{
        printf("Your entered character is neither -vowel nor- consonant  ");
    }
}
```

Q.7. wap in c to find greatest number between four number using ternary operator.

```c
#include<stdio.h>
main(){
int a,b,c,d;
printf("Enter four number :");
scanf("%d%d%d%d",&a,&b,&c,&d);
int x=(a>b)?(a>c)?(a>d)?a:d:(c>d)?c:d:(b>c)?(b>d)?b:d:(c>d)?c:d;
printf("max number is :%d",x);
}
```

Q.8.wap in c to show the result of the student.

```c
#include"stdio.h"
```

```c
main(){
        int marks;
        printf("Enter student marks:");
        scanf("%d",&marks);
        if(marks>=75 &&marks<=100){
                printf("Grade A:pass first division ");
        }else if(marks>=60 && marks<75){
                printf("Grade B: pass second division");
        }else if(marks>=34 && marks<60){
                printf("Grade C: pass third division ");
        }else if(marks>=0 && marks<34){
                printf("you will fail");
        }else{
                printf("invalid percentage");
        }
}
```

Q.9. wap in c to print week day according to day number.

```c
#include"stdio.h"
int main(){
        int daynum;
        printf("Enter you day number:");
        scanf("%d",&daynum);
```

```c
if(daynum>7 ||daynum<=0){

        printf("invalid daynumber");

        return 1;

}

switch(daynum)

{

        case 1:

                printf("today is monday");

                break;

                case 2:

                printf("today is tuesday");

                break;

                case 3:

                printf("today is wednesday");

                break;

                case 4:

                printf("today is thursday");

                break;

                case 5:

                printf("today is friday");

                break;

                case 6:

                printf("today is saturday");

                break;
```

```
            case 7:

            printf("today is sunday");

            break;

        }

}
```

Q.10. wap in c to calculate mathematical operations using switch case

```c
#include"stdio.h"
main(){
    char op;
    int num1,num2, c;

    printf("Enter your two  number:");
    scanf("%d%d",&num1,&num2);
    printf("Enter your operator:");
    scanf("%s",&op);
    switch(op){
        case '+':
        printf("addition is num1+num2:%d",num1+num2);
        break;
        case '-':
          printf("Substraction is num1-num2:%d",num1-num2);
          break;
```

```c
        case '*':
        printf("Multiplication is num1*num2:%d",num1*num2);
            break;
        case '/':
            if(num2==0){
                    printf("invalid");
            }else{
                    printf("Division is num1/num2:%d",num1/num2);
                    return 1;
            }
          break;
        default:
              printf("invalid operator");
    }
}
```