



DECISION CONTROL STATEMENTS

ASSIGNMENT 3



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Q.wap to check whether a given number is positive or non_positive.

```
#include<stdio.h>

int main()
{
    int num;
    printf("Enter a number:");
    scanf("%d",&num);
    if (num>0)
        printf("positive");
    else
        printf("negative");
    return 0;
}
```

Q.wap to check whether a given number is divisible by 5 or not.

```
#include<stdio.h>

int main()
{
```

```
int num;
printf("enter a number:");
scanf("%d",&num);
if(num%5==0)
printf("divisible");
else
printf("non_divisible");
return 0;
}
```

Q.wap to check whether a given number is even or an odd number.

```
#include<stdio.h>
int main()
{
    int num;
    printf("enter a number:");
    scanf("%d",&num);
    {
        if (num%2==0)
```

```
        printf("even number");
    else
        printf("odd number");
}
return 0;
}
```

Q.wap to find the greatest among three given numbers.
Print number once if the greatest number appears two or
three times.

```
#include<stdio.h>
int main()
{
    int a,b,c;
    printf("enter three number:");
    scanf("%d%d%d",&a,&b,&c);
    if(a>b&&a>c)
        printf("%d",a);
    else
    {
```

```
        if(b>a&&b>c)
            printf("%d",b);
        else
            printf("%d",c);
    }
    return 0;
}
```

Q.wap to take marks of 5 subjects from the user.assume marks are given out of 100 and passing marks is 33.now display whether the candidate passed the examination or failed.

```
#include<stdio.h>

int main()
{
    int a,b,c,d,e;
    printf("enter marks of five digits:");
    scanf("%d%d%d%d%d",&a,&b,&c,&d,&e);
    {
```

```
        if(a>=33 && b>=33 && c>=33 && d>=33 &&
e>=33)

        printf("passed the examination");

        else

        printf("failed the examination");

    }

    return 0;

}
```

Q.wap to check whether a given alphabet is in uppercase or lowercase.

```
#include<stdio.h>

int main()

{

    int ch;

    printf("enter a character:");

    scanf("%c",&ch);

    {

        if(ch>='A'&&ch<='Z')
```

```
printf("upper case alphabet");
```

```
else if (ch>='a'&&ch<='z')
```

```
printf("lower case alphabet");
```

```
}
```

```
return 0;
```

```
}
```

Q.wap to check whether a given number is divisible by 3 and divisible by 2.

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

```
int main()
```

```
{
```

```
int num;
```

```
printf("enter a number:");
```

```
scanf("%d",&num);  
{  
    if(num%3==0 && num%2==0)  
        printf("divisible");  
    else  
        printf("not divisible");  
}  
}
```

Q.wap check whether a given number is divisible by 7 or divisible by 3.

```
#include<stdio.h>  
  
int main()  
{  
    int num;  
    printf("enter a number:");  
    scanf("%d",&num);  
    {  
        if(num%7==0 || num%3==0)  
            printf("divisible");  
    }
```



```
        else
            printf("not divisible");
    }
    return 0;
}
```

Q.wap to check whether a given number is positive, negative or zero.

```
#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 if(num==0)
```

```
printf("%d is zero",num);
```

```
return 0;
```

```
}
```

Q.wap to check whether a given character is an alphabet (uppercase),an alphabet(lowercase),a digit or a special character.

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

```
int main()
```

```
{
```

```
    int ch;
```

```
    printf("enter a character:");
```

```
    scanf("%c",&ch);
```

```
    {
```

```
        if(ch>='A' && ch<='Z')
```

```
        printf("upper case alphabet");
```

```
        else if(ch>='a' && ch<='z')
```

```
        printf("lower case alphabet");
```

```
        else if(ch>='0' && ch<='9')
```

```
        printf("digit");
    else
        printf("special character");
}
return 0;
}
```

Q.wap to which takes the length of the sides of a triangle as an input,display whether the triangle is valid or not.

```
#include<stdio.h>

int main()
{
    int a,b,c;
    printf("enter three numbers:");
    scanf("%d%d%d",&a,&b,&c);
    {
        if(a+b>c && a+c>b && b+c>a)
            printf("triangle is valid");
        else
            printf("triangle is invalid");
    }
}
```

```
    }  
    return 0;  
}
```

Q.wap to check whether a given year is leap year or not.

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

```
int main(){  
  
    int year;  
    printf("Enter a year: ");  
    scanf("%d", &year);  
    if((year%4==0) && (year%400==0) )  
    {  
        printf("%d is a leap year", &year);  
    } else {  
        printf("%d is not a leap year", &year);  
    }  
    return 0;  
}
```