

Assignment - 3

Decision Control Statements

Q1 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 ("Number is positive");
    }
    else if (num == 0)
    {
        printf ("Number is Non positive");
    }
    printf ("\n n");
    return 0;
}
```

82 WAP to check whether a given Number
is divisible by 5 or not.

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

```
int main()
```

```
{
```

```
    int a;
```

```
    printf(" Enter a Number ");
```

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

```
    if (a % 5 == 0)
```

```
{
```

```
        printf(" No is divisible %d ", a);
```

```
}
```

```
else
```

```
{
```

```
    printf(" No is Not divisible %d ", a);
```

```
}
```

```
return 0;
```

```
}
```

Q3 WAP to check whether a given Number is an Even Number 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 %d", num);
    }
    else
    {
        printf("Odd Number %d", num);
    }
    return 0;
}
```

Q4 WAP to check whether a given Number is an even Number or an odd Number without using % operator.



Q6 WAP to check print greater between two Numbers . print one Number if both are the same .

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

```
int main()
```

```
{ int a;
```

```
if printf ("Enter a No");
```

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

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

```
if (a > b)
```

```
{
```

```
printf ("Greater No is %d",  
a);
```

```
}
```

```
else if
```

```
{
```

```
printf (" Smaller Greater No is not  
a. %d", a);
```

```
}
```

```
return 0;
```

```
}
```

```
else
```

```
{
```

```
printf (" Same No ");
```

```
}
```

```
return 0;
```

```
}
```



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```

#include <stdio.h>
if b2 >= 0
{
    int main()
    {
        int a, b, c;
        printf("Enter the nos");
        scanf("%d %d %d", &a, &b, &c);
        calc = b2 - 4ac;
        if (calc > 0)
        {
            calc = b * b - 4 * a * c;
            if (calc > 0)
                if (calc == 0)
                    calc = b2 - 4ac;
                    printf("Roots are real");
                    else if (calc == 0)
                        printf("Roots are equal");
                        else
                            printf("Roots are imaginary");
        }
    }
}

```

ओ: भगलपुर शास्त्रा-1, "सुमुख मंडप कॉम्प्लेक्स", जेल रोड, तिळकामांडी, भगलपुर (बिहार)
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```

        }
    else
    {
        printf (" Roots are distinct ");
    }
    return 0;
}

```

Q8 WAP to check whether a given year is a leap year or Not.

```

#include<stdio.h>
int main()
{
    int leapyear = 0;
    printf("Enter the year ");
    scanf("%d", &leapyear);
    if (leapyear % 100 == 0)
    {
        printf("Century year");
    }
    else if (leapyear % 400 == 0 || leapyear % 4 == 0)
    {
        printf("Leap year");
    }
}

```



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```
88
{   printf ("Do Not a leap year");
}
between 0;
}
```

89 WAP to find the greatest among the three Numbers . Print Number Once if the greatest Number appears two or three times

```
#include < stdio.h>
int main()
{
    int a, b, c = 0;
    printf ("Enter 3 Numbers ");
    scanf ("%d %d %d", &a, &b, &c);
    if (a > b && a > c)
    {
        printf ("Greatest No is %d", a);
    }
}
```

ओः: भागलपुर शाखा-1, "सुमित मंडल कॉम्प्लेक्स", जेल रोड, डिलकामांझी, भागलपुर (बिहार)
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```

else if (b > c)
{
    printf ("b is the greatest");
}
else
{
    printf ("c is the greatest");
}
return 0;
}

```

Q10 WAP which takes the cost price and selling price of a product from the user. Now calculate and print profit or loss percentage.

```

#include <stdio.h>
int main()
{
    int losspercent, profitpercent = 0;
    int cp, sp = 0;
    printf ("Enter the cost price and selling price");
    if (cp < sp)
    {
        loss = sp - cp
        profit = sp - cp;
    }
}

```



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```
profitpercent = ((Profit / CostPrice) * 100);  
{ printf("% .2f", profitpercent);  
else if (SP < CP)  
{  
    loss = CP - SP;  
    losspercent = ((loss / CostPrice) * 100);  
    printf("% .2f", losspercent);  
}  
return 0;  
}
```

Q11 WAP to take marks of 5 subjects from the user. Annual marks are given out of 100 and passing marks is 33. Now display whether the candidate is passed or failed in the examination.

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```

#include <stdio.h>
int main()
{
    int a, b, c, d, e = 0;
    printf ("Enter the Marks of 5 subjects");
    scanf ("%d %d %d %d %d", &a, &b, &c, &d, &e);
    if (a + b + c + d + e > 165)
        printf ("Passed %d", sum);
    else
        printf ("Failed %d", sum);
    return 0;
}

```

Q12 WAP to check whether a given alphabet
is uppercase or lowercase.

```

#include <stdio.h>
int main()
{
    char ch;
}

```



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```
printf("Enter the character");
scanf("%c", &ch);
if(ch > 32 && ch <= 126)
    if(ch > 65 && ch <= 90)
        {
            printf("%c Capital letter Alphabet");
        }
    else if(ch > 97 && ch <= 122)
        {
            printf("%c Lower case alphabet");
        }
else
    {
        printf("Not a character");
    }
return 0;
```

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Q13 WAP to check whether a given Number is
divisible by 3 or by 2?

```
#include <stdio.h>
int main()
{
    int num;
    printf("Enter a Number");
    scanf("%d", &num);
    if(num % 3 == 0 && num % 2 == 0)
    {
        printf("The No is divisible by 3 and 2
               %d", num);
    }
    else
    {
        printf("The No is Not divisible by 3
               and 2", num);
    }
    return 0;
}
```

Q14 WAP to check whether a given Number is
divisible by 7 or divisible by 3.



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```
#include < stdio.h >
int main()
{
    int a = 0;
    printf("Enter a Number");
    scanf("%d", &a);
    if(a % 7 == 0 || a % 2 == 0)
    {
        printf("The No is divisible by 7 or by 2");
    }
    else
    {
        printf("The No is Not Divisible by 7 or by 2");
    }
    return 0;
}
```

ओः भागलपुर शाला-१, "सुमित मंडल कॉम्प्लेक्स", जेल रोड, तिळकामांडी, भागलपुर (बिहार)
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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 ("Number is positive %d", num);
    }
    else if (num < 0)
    {
        printf ("No is Negative %d", num);
    }
    else
    {
        printf ("No is Zero");
    }
    return 0;
}
```



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Q16 WAP to check whether a given character is an alphabet (uppercase) an alphabet (lower case) a digit or a special character.

```
#include <stdio.h>
int main()
{
    char ch;
    printf ("Enter a character");
    scanf ("%c", &ch);
    int a = (int)(ch);
    if (a > 65 && a < 90)
    {
        printf ("Uppercase character %c", ch);
    }
    else if (a > 97 && a < 122)
    {
        printf ("Lowercase character %c", ch);
    }
    else if (a > 48 && a < 57)
    {
        printf ("%c is Digit", a);
    }
}
```

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```

    {
        printf ("Special character");
    }
}

817 {
    WAP which takes the length of the sides of a
    Triangle as an input & display whether the
    #include< stdio.h> Triangle is possi-
    ble or Not.
    {
        int l1, l2, l3 = 0;
        printf ("Enter the three sides");
        scanf ("%d %d %d", &l1, &l2, &l3);
        if (l1 + l2 > l3)
        {
            printf ("Triangle is possible");
        }
        else if (l1 + l3 > l2)
        {
            printf ("Triangle is possible");
        }
        else if (l2 + l3 > l1)
        {
            printf ("Triangle is possible");
        }
    }
}

```



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else

{

Print ("Triangle Not possible");

}

return;

}

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WAP which takes the Month Numbe

-er as an input and displaying

the No of Days in the Month.

2 - 31

2 - 28

3 - 31

4 - 30

1

2

3

4

5 - 31

6 - 30

7 - 31

8 - 31

5

9 - 30

10 - 31

11 - 30

12 - 31

6

7

8

```
#include <stdio.h>
int main ()
{
    int monthNumber;
    printf ("Enter a Number");
    scanf ("%d", &monthNumber);
    if (MonthNumber == 1 || MonthNumber == 3
        MonthNumber == 5 || MonthNumber == 7
        MonthNumber == 8 || MonthNumber == 10
        MonthNumber == 12 )
```



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printf ("The Month with 31st days
are %d", MonthNumber);

}

else if (MonthNumber == 2 || MonthNumber == 4)
MonthNumber == 6 || MonthNumber == 9)
{ printf ("The Month with 30 days are

{

");

}

else

{ printf ("The NO with 28 days are ");

{

return 0;

}