

Assignment - 3

①

```
#include <stdio.h>
int main()
{
    int n;
    printf("Enter a number");
    scanf("%d", &n);
    If (x > 0)
        printf("positive number");
    else
        printf("Non-positive number");
    return 0;
}
```

②

```
#include <stdio.h>
int main()
{
    int n;
    printf("Enter a number");
    scanf("%d", &n);
    If (n % 5 == 0)
        printf("divided by 5");
    else
        printf("Not divided by 5");
    return 0;
}
```

```

③ #include <stdio.h>
int main()
{
    int n;
    printf("enter a number");
    scanf("%d", &n);
    if (n%2 == 0)
        printf("even number");
    else
        printf("odd number");
    return 0;
}

```

```

④ #include <stdio.h>
int main()
{
    int n, r, m;
    printf("enter a number");
    scanf("%d", &n);
    r = n/2;
    m = n - r*2;
    if (m == 0 || m == 2 || m == 4 || m == 6 || m == 8)
    {
        printf("even number");
    }
    else
        printf("odd number");
}

```

```
return 0;
```

```
{
```

```
⑤ #include <stdio.h>
```

```
int main()
```

```
{ int n;
```

```
printf("Enter three digit");
```

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

```
n /= 10;
```

```
n /= 10;
```

```
if (n==1 || n==2 || n==3 || n==4 || n==5  
    || n==6 || n==7 || n==8 || n==9)
```

```
{
```

```
printf("Three number");
```

```
else
```

```
printf("Not three number");
```

```
return 0;
```

```
}
```



```
② #include <stdio.h>
int main()
```

```
{
    int n, m;
```

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

```
    scanf("%d %d", &n, &m);
```

```
    If (m > n)
```

```
        printf("greater number = %d",
```

```
        else if (m == n)
```

```
            printf("one number both are same");
```

```
    else
```

```
        printf("greater number = %d",
```

```
        return 0;
```

```
}
```

② #include <stdio.h>

int main()

{
int a, b, c;

printf("enter the value of a, b and c);

scanf("%d %d %d", &a, &b, &c);

if ($b^2 - 4ac \geq 0$)

printf("root are real and distinct");

else if ($b^2 - 4ac == 0$)

printf("root are real and equal");

else

printf("root are imaginary");

return 0;

}

```
② #include <stdio.h>
int main()
{
    int year;
    printf("Enter the year");
    scanf("%d", &year);
    If (n%4 == 0 & n%100 != 0)
        printf("Leap year");
    else if (n%4 == 0)
        printf("Leap year");
    else
        printf("Not Leap year");
    return 0;
}
```

```

(9) #include <stdio.h>
int main()
{
    int a, b, c;
    printf("enter a number a, b & c");
    scanf("%d %d %d", &a, &b, &c);
    if (a > b || b > c)
        printf("max = %d");
    else if (b > c || c > a)
        printf("max = %d");
    else
        printf("max = %d");
    return 0;
}

```

```

(10) #include <stdio.h>
int main()
{
    int price, profit, loss, perloss, perprofit, cell;
    printf("enter price money");
    scanf("%d", &price);
    printf("enter cell money");
    scanf("%d", &cell);
    if (cell > price)
    {
        profit = cell - price;
        perprofit =  $\frac{\text{profit}}{\text{price}} \times 100$ ;
    }
}

```


~~printf("%d",~~

printf("profit = %d", profit);

~~else~~

else

{

~~sell = price - set~~

loss = price - sell;

perloss = $\frac{\text{loss}}{\text{price}} \times 100$;

printf("%d", perloss);

return 0;

}

⑪ #include <stdio.h>;

int main()

{ int Hindi, english, chemistry, Phy, math;
printf("Enter Hindi mark out of 100");
scanf("%d", &Hindi);

printf("Enter english mark out of 100");
scanf("%d", &English);

printf("Enter chemistry mark out of 100");
scanf("%d", &chemistry);


```

printf("Enter phy mark");
scanf("%d", &phy);
printf("Enter math mark");
scanf("%d", &math);
If (Hindi >= 33 & English >= 33 & Chemistry >= 33
    phy >= 33 & math >= 33)
{
    printf("passed candidate");
}
else
    printf("fail candidate");
return 0;
}

```

(12) #include <stdio.h>

```

int main ()
{
    char m;
    printf("Enter character");
    scanf("%c", &m);
    If (m >= 65 & m <= 90)
        printf("upper case");
    else
        printf("lower case");
}

```

```

⑬ #include <stdio.h>
int main()
{
    int n;
    printf("Enter a number");
    scanf("%d", &n);
    If ( $n \% 2 == 0$  &&  $n \% 3 == 0$ )
        printf("divisible by 3 and 2");
    else
        printf("not divisible by 3 and 2");
    return 0;
}

```

```

⑭ #include <stdio.h>
int main()
{
    int n;
    printf("Enter a number");
    scanf("%d", &n);
    If ( $n \% 7 == 0$  ||  $n \% 3 == 0$ )
        printf("divisible by 7 or divisible by 3");
    else
        printf("divisible by
        printf("Not divisible by 7 or not divisible
            by 3");
    return 0;
}

```


⑮ #include <stdio.h>

int main()

{ int n;

printf("Enter the number");

scanf("%d", &n);

If (n > 0)

printf("positive number");

else If (n == 0)

printf("zero");

else

printf("Negative number");

return 0;

}

⑯ #include <stdio.h>

int main()

{ int n;

~~printf("Enter~~

char ch;

printf("Enter character");

scanf("%c", &ch);

If (ch >= 65 && ch <= 90)

printf("upper case");

else If (ch >= 97 && ch <= 122)

printf("lower case");

else

printf("a digit or special character");

return 0;

}


```

⑦ #include <stdio.h>
int main()
{
    int a, b, c;
    printf("Enter triangle size length a, b & c");
    scanf("%d %d %d", &a, &b, &c);
    If (a+b > c && c+b > a && a+c > b)
        printf("triangle is valid");
    else
        printf("triangle is not valid");
    return 0;
}

```

```

⑩ #include <stdio.h>
int main()
{
    int n, mn;
    printf("Enter month number");
    scanf("%d", &mn);
    If (mn == 4 || mn == 6 || mn == 9 || mn == 11)
        printf("Day of month is 30");
    elseif (mn == 2)
        printf("Day of month is 28");
    else
        printf("Day of month is 31");
    return 0;
}

```