

# Assignment 3

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## Question 1

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

```
int main() {  
    int a;  
    printf("Enter a no. ");  
    scanf("%d",&a);  
    if(a>0)  
        printf("No. is positive");  
    else  
        printf("No. is non positive");  
    return 0;  
}
```

\*\*\*\*\*

## Question 2

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

```
int main() {  
    int a;  
    printf("Enter a no. ");  
    scanf("%d",&a);  
    if(a%5==0)  
        printf("No. is divisible by 5");  
    else  
        printf("No. is not divisible by 5");  
    return 0;  
}
```

\*\*\*\*\*

## Question 3

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

```
int main() {  
    int a;  
    printf("Enter a no. ");  
    scanf("%d",&a);  
    if(a%2==0)  
        printf("No. is even");  
    else  
        printf("No. is odd");  
    return 0;  
}
```

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## Question 4

```
#include<stdio.h>
int main()
{
    int a;
    printf("Enter a no. ");
    scanf("%d",&a);
    if((a/2)*2==a)
        printf("No. is even");
    else
        printf("No. is odd");
    return 0;
}
```

\*\*\*\*\*

## Question 5

```
#include<stdio.h>
int main()
{
    int a;
    printf("Enter a no. ");
    scanf("%d",&a);
    int x=printf("%d",a);
    if(x==3)
        printf("\nIt is three digit no.");
    else
        printf("\nIt is not a three digit no.");
    return 0;
}
```

\*\*\*\*\*

## Question 6

```
#include<stdio.h>
int main()
{
    int a,b;
    printf("Enter two no. ");
    scanf("%d%d",&a,&b);
    if(a>b)
        printf("%d",a);
    else
        printf("%d",b);
    return 0;
}
```

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### Question 7

```
#include <stdio.h>
int main() {
    double a, b, c, d;
    printf("Enter coefficients a, b and c: ");
    scanf("%lf %lf %lf", &a, &b, &c);
    d = b * b - 4 * a * c;
    if(d>0)
        printf("Equation is having real and distinct root");
    else if(d==0)
        printf("Equation is having real and equal root");
    else
        printf("Equation is having imaginary root");
    return 0;
}
```

\*\*\*\*\*

### Question 8

```
#include <stdio.h>
int main() {
    int yr;
    printf("Enter the year ");
    scanf("%d",&yr);
    if(yr%100==0)
        if(yr%400==0)
            printf("Leap year");
        else
            printf("Not a Leap year");
    else
        if(yr%4==0)
            printf("Leap year");
        else
            printf("Not a Leap year");
    return 0;
}
```

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### Question 9

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

```
int main() {
    int a,b,c;
    printf("Enter three no. ");
    scanf("%d%d%d",&a,&b,&c);
    if(a>b)
        if(a>c)
            printf("%d",a);
        else
            printf("%d",c);
    else
        if(b>c)
            printf("%d",b);
        else
            printf("%d",c);
    return 0;
}
```

\*\*\*\*\*

### Question 10

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

```
int main() {
    float CP,SP;
    printf("Enter CP and SP ");
    scanf("%f%f",&CP,&SP);
    if(SP>CP)
        printf("Profit%% is %f",((SP-CP)/CP)*100);
    else
        printf("Loss%% is %f",((CP-SP)/CP)*100);
    return 0;
}
```

\*\*\*\*\*

### Question 11

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

```
int main() {
    float a,b,c,d,e;
    printf("Enter marks of 5 subjects(max. marks 100) ");
    scanf("%2f%2f%2f%2f%2f",&a,&b,&c,&d,&e);
    if(a>=33 && b>=33 && c>=33 && d>=33 && e>=33)
        printf("Pass");
    else
        printf("Fail");
    return 0;
}
```

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### Question 12

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

```
int main() {  
    char a;  
    printf("Enter a Alphabet ");  
    scanf("%c",&a);  
    if(a>='A' && a<='Z')  
        printf("Uppercase");  
    else  
        printf("Lowercase");  
    return 0;  
}
```

\*\*\*\*\*

### Question 13

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

```
int main() {  
    int a;  
    printf("Enter a no. ");  
    scanf("%d",&a);  
    if(a%3==0 && a%2==0)  
        printf("It is divisible by 2 and 3");  
    else  
        printf("No it is not divisible by 2 and 3");  
    return 0;  
}
```

\*\*\*\*\*

### Question 14

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

```
int main() {  
    int a;  
    printf("Enter a no. ");  
    scanf("%d",&a);  
    if(a%7==0 || a%3==0)  
        printf("It is divisible by 7 or 3");  
    else  
        printf("No it is not divisible by 7 or 3");  
    return 0;  
}
```

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## Assignment 3

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### Question 15

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

```
int main() {
```

```
    int a;
```

```
    printf("Enter a no. ");
```

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

```
    if(a>0)
```

```
        printf("Positive");
```

```
    else if(a<0)
```

```
        printf("Negative");
```

```
    else
```

```
        printf("Zero");
```

```
    return 0;
```

```
}
```

\*\*\*\*\*

### Question 16

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

```
int main() {
```

```
    char a;
```

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

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

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

```
        printf("Uppercase");
```

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

```
        printf("Lowercase");
```

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

```
        printf("Digit");
```

```
    else
```

```
        printf("Special Character");
```

```
    return 0;
```

```
}
```

\*\*\*\*\*

### Question 17

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

```
int main() {
```

```
    int a,b,c;
```

```
    printf("Enter sides of triangle ");
```

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

```
    if((a+b)>c && (b+c)>a && (c+a)>b)
```

```
        printf("Triangle is valid");
```

```
    else
```

```
        printf("Triangle is not valid");
```

```
    return 0;
```

```
}
```

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## Assignment 3

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Question 18

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

```
int main() {
```

```
    int a;
```

```
    printf("Enter month no. ");
```

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

```
    if(a==1 || a==3 || a==5 || a==7 || a==8 || a==10 || a==12)
```

```
        printf("No. of days is 31");
```

```
    else if(a==2)
```

```
        printf("No. of days if it is not a leap year is 28 and if it is leap year then 29");
```

```
    else
```

```
        printf("No. of days is 30");
```

```
    return 0;
```

```
}
```

\*\*\*\*\*