

Assignment-8

Date: 24.06.2022

1. // Divisible by 3 and 2

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

```
int main()
```

```
{
```

```
int x;
```

```
printf("Enter number = ");
```

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

```
r = x % 6;
```

```
if(r == 0)
```

```
printf("%d is divisible by 3 and 2", x);
```

```
else
```

```
printf("%d is not divisible by 3 and 2", x);
```

```
getch();
```

```
}
```

2.

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

```
int main()
```

```
{
```

```
int x;
```

```
printf("Enter the number = ");
```

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

```
r1 = x % 7;
```

```
r2 = x % 3;
```

```
if((r1 == 0) || (r2 == 0))
```

```
printf("%d divisible by both", x);
```

```
else if (r2 == 0)
```

```
printf("%d is divisible by 3", x);
```

```
else if (r1 == 0)
```

```
printf("Not divisible by 7 or 3", x);
```

```
printf("%d divisible by 7", x);
```

```
else
```

```
printf("Not divisible by any");
```

```
getch();
```

```
}
```

```

int main()
{
    int x;
    printf("Enter the number=");
    scanf("%d", &x);
    if (x > 0)
        printf("%d is positive", x);
    else if (x < 0)
        printf("%d is negative", x);
    else
        printf("%d is zero", x);
    getch();
}

```

```

int x;
char ch;
printf("Enter the character=");
scanf("%c", &ch);
if (ch >='A' && ch <='Z')
    printf("%c is upper case", ch);
else if (ch >='a' && ch <='z')
    printf("%c is lower case", ch);
else if (ch >='0' && ch <='9')
    printf("%c is digit", ch);
else
    printf("%c is Special character", ch);
getch();
}

```

4. // Leap year or not

```

#include <stdio.h>
int main()
{
    int x, r1, r2, r3;
    printf("Enter the year=");
    scanf("%d", &x);
    r1 = x % 400;
    r2 = x % 100;
    r3 = x % 4;
    if ((r1 == 0) || (r2 != 0 && r3 == 0))
        printf("%d is leap year", x);
    else
        printf("%d is not leap year", x);
    getch();
}

```

5. #include <stdio.h>

```

int main()
{
    int x, y, z, big;
    printf("Enter three number=");
    scanf("%d %d %d", &x, &y, &z);
    big = x;
    if (y > big)
        printf("%d is greatest", y); big = y;
    else if (z > big)
        printf("%d is greatest", z); big = z;
    else
        printf("%d is greatest", big);
}

```

7. // Triangle valid or not

```

#include <stdio.h>
int main()
{
    float x, y, z;
    printf("Enter three sides of triangle=");
    scanf("%f %f %f", &x, &y, &z);
    if (x > y + z || y > z + x || z > x + y)
        printf("Valid");
    else
        printf("Invalid");
}

```


8. // name of the month and days

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

```
{
    int char ch; int n;
```

```
    printf("Enter name of the month = ");
```

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

```
    if (ch == n == 2)
```

```
        printf("%d no month is 28/29 days", n);
```

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

```
        printf("%d no month is 31 days", n);
```

```
    else
```

```
        printf("%d no month is 30 days", n);
```

9.

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

// Calculation of Grade

```
{
```

```
    int p, c, m, co, B;
```

```
    float P-P;
```

```
    Enter printf("Enter the marks of p = ");
```

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

```
    printf("Enter the marks of c = ");
```

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

```
    printf("Enter the marks of m = ");
```

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

```
    printf("Enter the marks of co = ");
```

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

```
    printf("Enter marks of B = ");
```

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

```
    P-P = (p+c+m+co+B)/5;
```

```
    if (P-P >= 90 && P-P <= 100)
```

```
        printf("Grade A");
```

```
    else if (P-P >= 80 && P-P < 90)
```

```
        printf("Grade B");
```

```
    else if (P-P >= 70 && P-P < 80)
```

```
        printf("Grade C");
```

```
    else if (P-P >= 60 && P-P < 70)
```

```
        printf("Grade D");
```

```
    else if (P-P >= 40 && P-P < 60)
```

```
        printf("Grade E");
```

```
    else if (P-P < 40)
```

```
        else-if (P-P <= 40)
```

```
            printf("Grade F");
```

```
    else
```

```
        printf("Invalid marks");
```

```
}
```