

1 - Write a C programme to check whether the number entered through the keyboard is even or odd

```
#include<stdio.h>

int main()
{
    int number;
    printf ("Enter a number: ");
    scanf ("%d", &number);

    if ((number % 2)==0)
    {
        printf("%d is Even\n", number);
    }
    else
    {
        printf("%d is Odd\n", number);
    }

    return 0;
}
```

2 - Write a C programme to find the greatest of 3 numbers entered through the keyboard

```
#include<stdio.h>

int main()
```

```

{

int first, second, third;

printf("Enter the first number: ");
scanf("%d",&first);

printf("Enter the second number: ");
scanf("%d",&second);

printf("Enter the third number: ");
scanf("%d",&third);

if(first>=second && first>=third)
{
    printf("%d is the greater one\n", first);
}

else if (second>=first && second>=third)
{
    printf("%d is greater one\n", second);
}

else
{
    printf("%d is the greater one\n", third);
}

return 0;
}

```

3 - Write a C programme to determine whether given year is leapyear or not

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

```
int main()
```

```

{
int year;

printf ("Enter the year: ");
scanf("%d",& year);

if((year % 4 == 0) && ((year % 100)!=0) || (year % 400 == 0))

{
    printf ("%d is a leapyear\n", year);
}

else

{
    printf("%d is not a leapyear\n", year);
}

return 0;
}

```

4 - Write a C program To check whether the character entered through the keyboard is a capital letter small letter or digit or a special symbol

```

#include<stdio.h>

int main()

{
char character;

printf ("Enter a Character: ");

scanf ("%c",&character);

```

```

if (character>='A' && character<='Z')
{
    printf("%c is a Capital later\n", character);
}

else if (character>='a' && character<='z')
{
    printf("%c is a small later\n", character);
}

else if (character>='0' && character<='9')
{
    printf ("%c is a number\n",character);
}

else
{
    printf("%c is a special charecter\n",character);
}

return 0;
}

```

5- Write a C programme to calculate and display the tax amount given the following condition

- . If income is less than 1,50,000 then no tax
- . If income is in the range of 1,50,001 to 3,00,000 then charge 10% tax
- . If income is in the range of 3,00,001 to 5,00,000 then charge 20% tax
- . If income is more than 5,00,000 charge 25% tax

```
#include <stdio.h>

int main()
{
    float income, tax;

    printf("Enter your income: ");
    scanf("%f", &income);

    if (income <= 150000)
    {
        tax = 0;
        printf("No tax\n");
    }

    else if (income <= 300000)
    {
        tax = (income - 150000) * 10 / 100;
        printf("10 percent tax\n");
    }

    else if (income <= 500000)
    {
        tax = (150000 * 10 / 100) + (income - 300000) * 20 / 100;
        printf("20 percent tax\n");
    }

    else
    {
```

```

tax = (150000 * 10 / 100) + (200000 * 20 / 100) + (income - 500000) * 25 / 100;
printf("25 percent tax\n");

}

printf("Tax amount: %.2f\n", tax);

return 0;
}

```

6 - Write a C programme to enter number from 1 Two 7 and display the corresponding day of the week using switch case statement

```

#include <stdio.h>

int main()

{
    int day;

    printf("Enter a number (1 to 7): ");
    scanf("%d", &day);

    switch(day)
    {
        case 1:
            printf("Monday\n");
            break;
        case 2:

```

```
    printf("Tuesday\n");
    break;

case 3:
    printf("Wednesday\n");
    break;

case 4:
    printf("Thursday\n");
    break;

case 5:
    printf("Friday\n");
    break;

case 6:
    printf("Saturday\n");
    break;

case 7:
    printf("Sunday\n");
    break;

default:
    printf("Invalid input! Please enter a number between 1 and 7.\n");

}

return 0;
}
```