

PRACTICLE-04

1.

```
int main()
{
    int num;
    printf("enter number:");
    scanf("%d",&num);
    if(num%2==0)
        printf("your entered number is even");
    else printf("your entered number is odd");
}
```

```
int main()
{
    int num; printf("enter number:");
    scanf("%d",&num);
    switch (num%2)
    {
        case 0:
            printf("your entered number is even");
            break;
        default:
            printf("your entered number is odd");
    }
}
```

2.

```
int num1,num2;

char op;

printf("+ operator:\n- operator:\n* operator:\n/ operator:\n");

printf("enter operator:"); scanf("%c",&op);

printf("enter 1st number");

scanf("%d",&num1);

printf("enter 1st number");

scanf("%d",&num2);

if(op=='+')

printf("Answer is: %d",num1+num2);

else if(op=='-')

printf("Answer is: %d",num1-num2);

else if(op=='*')

printf("Answer is: %d",num1*num2);

else if(op=='/')

printf("Answer is: %d",num1/num2);

else printf("You entered invalid operator");
```

3.

```
int choice;
```

```
float radius, PI = 3.14159;
```

```
printf("Menu:\n");
```

```
printf("1. Calculate the circumference of a circle\n");
```

```
printf("2. Calculate the area of a circle\n");
```

```
printf("3. Calculate the volume of a sphere\n");
```

```
printf("Enter your choice (1-3): ");
```

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

```
printf("Enter the radius: ");
```

```
scanf("%f", &radius);
```

```
switch (choice)
```

```
{
```

```
case 1: { float circumference = 2 * PI * radius;
```

```
printf("Circumference: %.2f\n", circumference);
```

```
break;
```

```
}
```

```
case 2: { float area = PI * radius * radius;
```

```
printf("Area: %.2f\n", area);
```

```
break;
```

```
}
```

```
case 3: { float volume = (4.0 / 3.0) * PI * (radius, 3);
```

```
printf("Volume: %.2f\n", volume);
```

```
break;
```

```
}
```

```
default:
```

```
{
```

```
printf("Invalid choice\n");
```

```
break;
```

```
}
```

4.

```
char ch;
```

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

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

```
switch (ch)
```

```
{
```

```
case 'a':
```

```
case 'A':
```

```
case 'e':
```

```
case 'E':
```

```
case 'i':
```

```
case 'I':
```

```
case 'o':
```

```
case 'O':
```

```
case 'u':
```

```
case 'U':
```

```
printf("%c is a vowel.\n", ch);
```

```
break;
```

```
default:
```

```
printf("%c is not a vowel.\n", ch);
```

```
break;
```

```
}
```

5.

```
int month;

printf("Enter the month number (1-12): ");

scanf("%d", &month);

int days;

switch (month)
{
case 1:

case 3:

case 5:

case 7:

case 8:

case 10:

case 12:
    days = 31;
    break;
case 4:

case 6:

case 9:

case 11:
    days = 30;
    break;
case 2:
    days = 28;
    break;
default:
    printf("Invalid month number.\n");
    return 0; }

printf("Total number of days in the month: %d\n", days);
```