

1. Write a program to find the sum of all odd and even numbers upto a number specified by the user. Explain the need of `switch`.

```
max = int(input("Please enter the maximum value:"))
```

```
even_sum = 0
```

```
odd_sum = 0
```

```
for num in range(1, max+1):
```

```
    if (num % 2 == 0):
```

```
        even_sum = even_sum + num
```

```
    else:
```

```
        odd_sum = odd_sum + num
```

```
print("The sum of Even number 1 to 0 = %d" % even_sum)
print("The sum of odd number 1 to 0 = %d" % odd_sum)
```

```
print("The sum of odd number = %d. format (num, even_sum)
      num, even_sum)
```

output :-

Please enter the maximum value: 10

The sum of Even numbers = 30

The sum of odd numbers = 25