#### while01

|  |  |
| --- | --- |
| Print your name a hundred times | |
| **Exercise** | **Solution** |
|  | void main() {    func("Alisher");  }  String func(String name) {    int i = 0;    while (i < 99) {      i += 1;      print(name);    }    return name;  } |
| **Input:** | **output** |
|  |  |
|  |  |

#### 

#### while02

|  |  |
| --- | --- |
| Print your name | |
| **Exercise** | **Solution** |
|  | void main() {    print(func("Alisher"));  }  String func(String x) {    return x;  } |
| **Input:** | **output** |
|  |  |
|  |  |

#### while03

|  |  |
| --- | --- |
| Print your name | |
| **Exercise** | **Solution** |
|  | void main() {    print(func("Alisher"));  }  String func(String x) {    return x;  } |
| **Input:** | **output** |
|  |  |
|  |  |

#### 

#### while04

|  |  |
| --- | --- |
| Print the numbers from 1 to 100 | |
| **Exercise** | **Solution** |
|  | void main() {    func();  }  void func() {    int i = -1;    int m = 0;    while (i < 100) {      i += 1;      print(i);    }    // print(i);  } |
| **Input:** | **output** |
|  |  |
|  |  |

#### while05

|  |  |
| --- | --- |
| Print pairs of numbers from 1 to 100 | |
| **Exercise** | **Solution** |
|  | void main() {    func();  }  void func() {    int i = 0;    int m = 0;    while (i <= 100) {      if (i % 2 == 0) {        print(i);        i += 1;      } else {        i += 1;      }    }  } |
| **Input:** | **output** |
|  |  |
|  |  |

#### 

#### while06

|  |  |
| --- | --- |
| Print the odd numbers from 1 to 100 | |
| **Exercise** | **Solution** |
|  | void main() {    func();  }  void func() {    int i = 0;    int m = 0;    while (i <= 100) {      if (i % 2 == 1) {        print(i);        i += 1;      } else {        i += 1;      }    }  } |
| **Input:** | **output** |
|  |  |
|  |  |

#### 

#### while07

|  |  |
| --- | --- |
| Print pairs of numbers from 1 to 100 | |
| **Exercise** | **Solution** |
|  | void main() {    func();  }  void func() {    int i = 0;    int m = 0;    while (i <= 100) {      if (i % 2 == 0) {        print(i);        i += 1;      } else {        i += 1;      }    }  } |
| **Input:** | **output** |
|  |  |
|  |  |

#### 

#### while08

|  |  |
| --- | --- |
| Print the numbers from 100 to 1000 | |
| **Exercise** | **Solution** |
|  | void main() {    func();  }  void func() {    int i = 100;    int m = 0;    while (i <= 1000) {      print(i);      i += 1;    }  } |
| **Input:** | **output** |
|  |  |
|  |  |

#### 

#### while09

|  |  |
| --- | --- |
| Print pairs of numbers from 100 to 1000 | |
| **Exercise** | **Solution** |
|  | void main() {    func();  }  void func() {    int i = 100;    int m = 0;    while (i <= 1000) {      if (i % 2 == 0) {        print(i);        i += 1;      } else {        i += 1;      }    }  } |
| **Input:** | **output** |
|  |  |
|  |  |

#### 

#### while10

|  |  |
| --- | --- |
| Print odd numbers from 100 to 1000 | |
| **Exercise** | **Solution** |
|  | void main() {    func();  }  void func() {    int i = 100;    int m = 0;    while (i <= 1000) {      if (i % 2 == 1) {        print(i);        i += 1;      } else {        i += 1;      }    }  } |
| **Input:** | **output** |
|  |  |
|  |  |

#### 

#### while11

|  |  |
| --- | --- |
| Print the numbers from 100 to 0 | |
| **Exercise** | **Solution** |
|  | void main() {    func();  }  void func() {    int i = 100;    while (i >= 0) {      print(i);      i -= 1;    }  } |
| **Input:** | **output** |
|  |  |
|  |  |

#### 

#### while12

|  |  |
| --- | --- |
| Print the numbers from 3453 to 40 | |
| **Exercise** | **Solution** |
|  | void main() {    func();  }  void func() {    int i = 3453;    while (i >= 40) {      print(i);      i -= 1;    }  } |
| **Input:** | **output** |
|  |  |
|  |  |

#### 

#### while13

|  |  |
| --- | --- |
| Print your name and age 100 times, not two on the same line | |
| **Exercise** | **Solution** |
|  | void main() {    func();  }  void func() {    int i = 0;    while (i < 99) {      print("Alisher");      print("15");      i += 1;    }  } |
| **Input:** | **output** |
|  |  |
|  |  |

#### 

#### while14

|  |  |
| --- | --- |
| Print the sum of the numbers from 1 to 100 | |
| **Exercise** | **Solution** |
|  | void main() {    func();  }  void func() {    int i = 0;    int m = 0;    while (i <= 100) {      m += i;      i += 1;    }    print(m);  } |
| **Input:** | **output** |
|  |  |
|  |  |

#### 

#### while15

|  |  |
| --- | --- |
| Print the sum of pairs of numbers from 1 to 100 | |
| **Exercise** | **Solution** |
|  | void main() {    func();  }  void func() {    int i = 0;    int m = 0;    while (i <= 100) {      if (i % 2 == 0) {        m += i;        i += 1;      } else {        i += 1;      }    }    print(m);  } |
| **Input:** | **output** |
|  |  |
|  |  |

#### while16

|  |  |
| --- | --- |
| Print the sum of odd numbers from 1 to 100 | |
| **Exercise** | **Solution** |
|  | void main() {    func();  }  void func() {    int i = 0;    int m = 0;    while (i <= 100) {      if (i % 2 == 1) {        m += i;        i += 1;      } else {        i += 1;      }    }    print(m);  } |
| **Input:** | **output** |
|  |  |
|  |  |

#### 

#### while17

|  |  |
| --- | --- |
| Print the sum of the numbers from 50 to 1000 | |
| **Exercise** | **Solution** |
|  | void main() {    func();  }  void func() {    int i = 50;    int m = 0;    while (i <= 1000) {      m += i;      i++;    }    print(m);  } |
| **Input:** | **output** |
|  |  |
|  |  |

#### 

#### while18

|  |  |
| --- | --- |
| Print the sum of pairs of numbers between 50 and 1000 | |
| **Exercise** | **Solution** |
|  | void main() {    func();  }  void func() {    int i = 50;    int m = 0;    while (i <= 1000) {      if (i % 2 == 0) {        m += i;        i++;      } else {        i += 1;      }    }    print(m);  } |
| **Input:** | **output** |
|  |  |
|  |  |

#### 

#### while19

|  |  |
| --- | --- |
| Print the sum of odd numbers between 50 and 1000 | |
| **Exercise** | **Solution** |
|  | void main() {    func();  }  void func() {    int i = 50;    int m = 0;    while (i <= 1000) {      if (i % 2 == 1) {        m += i;        i++;      } else {        i += 1;      }    }    print(m);  } |
| **Input:** | **output** |
|  |  |
|  |  |

#### 

#### 

#### 

#### while20

|  |  |
| --- | --- |
| Find the product of the numbers from 123 to 3452 | |
| **Exercise** | **Solution** |
|  | void main() {    print(func());  }  int func() {    int i = 12;    int m = 1;    while (i <= 34) {      m \*= i;      i += 1;    }    return m\*-1;  } |
| **Input:** | **output** |
|  |  |
|  |  |

#### while21

|  |  |
| --- | --- |
| Print the product of even numbers from 123 to 3452 | |
| **Exercise** | **Solution** |
|  | void main() {    print(func());  }  int func() {    int i = 12;    int m = 1;    while (i <= 34) {      if (i % 2 == 0) {        m \*= i;        i += 1;      } else {        i += 1;      }    }    return m;  } |
| **Input:** | **output** |
|  |  |
|  |  |

#### while22

|  |  |
| --- | --- |
| Print the product of odd numbers from 123 to 3452 | |
| **Exercise** | **Solution** |
|  | void main() {    print(func());  }  int func() {    int i = 12;    int m = 1;    while (i <= 34) {      if (i % 2 == 1) {        m \*= i;        i += 1;      } else {        i += 1;      }    }    return m;  } |
| **Input:** | **output** |
|  |  |
|  |  |

#### 

#### while23

|  |  |
| --- | --- |
| Print the numbers from 2345 to 23 | |
| **Exercise** | **Solution** |
|  | void main() {    func();  }  void func() {    int i = 2345;    int m = 1;    while (i >= 23) {      print(i);      i--;    }  } |
| **Input:** | **output** |
|  |  |
|  |  |

#### 

#### while24

|  |  |
| --- | --- |
| Print the numbers from 2345 to 23 | |
| **Exercise** | **Solution** |
|  | void main() {    func();  }  void func() {    int i = 2345;    int m = 1;    while (i >= 23) {      print(i);      i--;    }  } |
| **Input:** | **output** |
|  |  |
|  |  |

#### 

#### while25

|  |  |
| --- | --- |
| Print the first even numbers from 1 to 100 and the second odd numbers | |
| **Exercise** | **Solution** |
|  | void main() {    func();    func2();  }  void func() {    int i = 0;    while (i <= 100) {      if (i % 2 == 0) {        print(i);        i += 1;      } else {        i += 1;      }    }  }  void func2() {    int i = 0;    while (i <= 100) {      if (i % 2 == 1) {        print(i);        i += 1;      } else {        i += 1;      }    }  } |
| **:** | **output** |
|  |  |
|  |  |

#### 

#### while26

|  |  |
| --- | --- |
| Print the sum of prime numbers from 1 to 100 | |
| **Exercise** | **Solution** |
|  | void main() {    print(func2());  }  int func(int a) {    int i = 2;    int b = a;    int m = 1;    while (i \* i <= a) {      if (a % i == 0) {        a ~/= i;      } else {        i += 1;      }    }    if (a == b) {      return m \*= a;    }    return 1;  }  int func2() {    int m = 1;    int i = 1;    while (i < 100) {      i++;      m \*= func(i);    }    if (m > 0) {      return m;    }    return m \* -1;  } |
| **Input** | **output** |
|  |  |
|  |  |

#### 

#### while27

|  |  |
| --- | --- |
| Print the first odd numbers and then the even numbers from 100 to 1000. | |
| **Exercise** | **Solution** |
|  | void main() {    func();    fun2();  }  void func() {    int i = 100;    while (i <= 1000) {      if (i % 2 == 1) {        print(i);        i += 1;      }      i += 1;    }  }  void fun2() {    int i = 100;    while (i <= 1000) {      if (i % 2 == 0) {        print(i);        i += 1;      }      i += 1;    }  } |
| **Input:** | **output** |
|  |  |
|  |  |

#### 

#### while28

|  |  |
| --- | --- |
| Print the product of prime numbers from 123 to 352 | |
| **Exercise** | **Solution** |
|  | void main() {    print(func2());  }  int func(int a) {    int i = 2;    int b = a;    int m = 1;    while (i \* i <= a) {      if (a % i == 0) {        a ~/= i;      } else {        i += 1;      }    }    if (a == b) {      return m \*= a;    }    return 1;  }  int func2() {    int m = 1;    int i = 123;    while (i < 352) {      i++;      m \*= func(i);    }    if (m > 0) {      return m;    }    return m \* -1;  } |
| **Input:** | **output** |
|  |  |
|  |  |

#### while29

|  |  |
| --- | --- |
| Create a list of arbitrary int numbers. Print the list items | |
| **Exercise** | **Solution** |
|  | void main() {    List<int> list = [1, 2, 3, 4, 5];    print(list);  } |
| **Input:** | **output** |
|  |  |
|  |  |

#### while30

|  |  |
| --- | --- |
| Add the numbers from 1 to 100 to the list. And print the list | |
| **Exercise** | **Solution** |
|  | void main() {    List list = [];    int i = 0;    while (i <= 100) {      i += 1;      list.add(i);    }    print(list);  } |
| **Input:** | **output** |
|  |  |
|  |  |

#### while31

|  |  |
| --- | --- |
| Add even numbers from 1 to 100 to the list. And print the list | |
| **Exercise** | **Solution** |
|  | void main() {    List list = [];    int i = 0;    while (i <= 100) {      i += 1;      if(i%2==0){        list.add(i);      }    }    print(list);  } |
| **Input:** | **output** |
|  |  |
|  |  |

#### 

#### while32

|  |  |
| --- | --- |
| Add even numbers from 1 to 100 to the list.  Print the sum of the numbers in the even indices | |
| **Exercise** | **Solution** |
|  | void main() {    List list = [];    int i = 0;    int m = 0;    while (i <= 100) {      i += 1;      if (i % 2 == 0) {        list.add(i);        m += i-1;      }    }    print(list);    print(m);  } |
| **Input:** | **output** |
|  |  |
|  |  |

#### while33

|  |  |
| --- | --- |
| Add even numbers from 1 to 100 to the list.  Print the sum of numbers with odd indices | |
| **Exercise** | **Solution** |
|  | void main() {    List list = [];    int i = 0;    int m = 0;    while (i <= 100) {      i += 1;      if (i % 2 == 0) {        list.add(i);      } else {        m += i+1;      }    }    print(list);    print(m);  } |
| **Input:** | **output** |
|  |  |
|  |  |

#### 

#### while34

|  |  |
| --- | --- |
| Add odd numbers from 1 to 100 to the list. And print | |
| **Exercise** | **Solution** |
|  | void main() {    List list = [];    int i = 0;    while (i <= 100) {      i += 1;      if(i%2==1){        list.add(i);      }    }    print(list);  } |
| **Input:** | **output** |
|  |  |
|  |  |

#### while35

|  |  |
| --- | --- |
| Add odd numbers from 1 to 100 to the list.  Print the sum of the numbers in the even index. | |
| **Exercise** | **Solution** |
|  | void main() {    List list = [];    int i = 0;    int m = 0;    while (i <= 100) {      i += 1;      if (i % 2 == 1) {        list.add(i);      } else {        m += i-1;      }    }    print(list);    print(m);  } |
| **Input:** | **output** |
|  |  |
|  |  |

#### while36

|  |  |
| --- | --- |
| Add odd numbers from 1 to 100 to the list.  Print the sum of the numbers in the odd index. | |
| **Exercise** | **Solution** |
|  | void main() {    List list = [];    int i = 0;    int m = 0;    while (i <= 100) {      i += 1;      if (i % 2 == 1) {        list.add(i);        m += i - 1;      }    }    print(list);    print(m);  } |
| **Input:** | **output** |
|  |  |
|  |  |

#### 

#### while37

|  |  |
| --- | --- |
| Add odd numbers from 330 to 20 to the list. | |
| **Exercise** | **So**void main() {    List list = [];    int i = 330;    while (i >= 20) {      i -= 1;      if (i % 2 == 1) {        list.add(i);      }    }    print(list);  }  **lution** |
|  |  |
| **Input:** | **output** |
|  |  |
|  |  |

#### while38

|  |  |
| --- | --- |
| Add odd numbers from 330 to 20 to the list.  Print the sum of the numbers in the even index. | |
| **Exercise** | **Solution** |
|  | void main() {    List list = [];    int i = 320;    int m = 0;    while (i >= 20) {      i -= 1;      if (i % 2 == 1) {        list.add(i);      } else {        m += i - 1;      }    }    print(list);    print(m);  } |
| **Input:** | **output** |
|  |  |
|  |  |

#### while39

|  |  |
| --- | --- |
| Add odd numbers from 330 to 20 to the list.  Print the sum of the numbers at odd index. | |
| **Exercise** | **Solution** |
|  | void main() {    List list = [];    int i = 320;    int m = 0;    while (i >= 20) {      i -= 1;      if (i % 2 == 1) {        list.add(i);  m+=i-1;      }    }    print(list);    print(m);  } |
| **Input:** | **output** |
|  |  |
|  |  |

#### 

#### while40

|  |  |
| --- | --- |
| Add even numbers from 330 to 20 to the list. | |
| **Exercise** | **Solution** |
|  | void main() {    List list = [];    int i = 320;    int m = 0;    while (i >= 20) {      i -= 1;      if (i % 2 == 0) {        list.add(i);      }    }    print(list);  } |
| **Input:** | **output** |
|  |  |
|  |  |

#### while41

|  |  |
| --- | --- |
| Add even numbers from 330 to 20 to the list.  Print the sum of the numbers at odd index. | |
| **Exercise** | **Solution** |
|  | void main() {    List list = [];    int i = 320;    int m = 0;    while (i >= 20) {      i -= 1;      if (i % 2 == 0) {        list.add(i);      } else {        m += i - 1;      }    }    print(list);    print(m);  } |
| **Input:** | **output** |
|  |  |
|  |  |

#### while42

|  |  |
| --- | --- |
| Add even numbers from 330 to 20 to the list.  Print the sum of the numbers in the even index. | |
| **Exercise** | **Solution** |
|  | void main() {    List list = [];    int i = 320;    int m = 0;    while (i >= 20) {      i -= 1;      if (i % 2 == 0) {        list.add(i);  m+=i-1;      }    }    print(list);    print(m);  } |
| **Input:** | **output** |
|  |  |
|  |  |

#### 

#### while43

|  |  |
| --- | --- |
| Add even numbers from 330 to 20 to the list. | |
| **Exercise** | **Solution** |
|  | void main() {    List list = [];    int i = 320;    int m = 0;    while (i >= 20) {      i -= 1;      if (i % 2 == 0) {        list.add(i);      }    }    print(list);  } |
| **Input:** | **output** |
|  |  |
|  |  |

#### while44

|  |  |
| --- | --- |
| Add even numbers from 330 to 20 to the list.  Print the sum of the numbers in the even index. | |
| **Exercise** | **Solution** |
|  | void main() {    List list = [];    int i = 320;    int m = 0;    while (i >= 20) {      i -= 1;      if (i % 2 == 0) {        list.add(i);  m+=i-1;      }    }    print(list);    print(m);  } |
| **Input:** | **output** |
|  |  |
|  |  |

#### 

#### while45

|  |  |
| --- | --- |
| Add even numbers from 330 to 20 to the list.  Print the sum of the numbers at odd index. | |
| **Exercise** | **Solution** |
|  | void main() {    List list = [];    int i = 320;    int m = 0;    while (i >= 20) {      i -= 1;      if (i % 2 == 0) {        list.add(i);  m+=i-1;      }    }    print(list);    print(m);  } |
| **Input:** | **output** |
|  |  |
|  |  |

#### 