**Steps**

1. Ask user for all the necessary inputs for calculations
2. Conditional statements that convert if the user smokes, takes medication, and what gender they are into true/false
3. Separate Male and Female into separate code blocks
4. The process for calculating the point totals is the same for both male and females just with different values
5. Start with age, add or takes away points based on the age ranges
6. Next add or take away points based on age factored with if the user is a smoker or non smoker
7. Next add or take away points for hDL based off the ranges from the table
8. Next add or take away points based on systolic bp and if the user is being treated with medicine or not
9. Finally assign the point totals to a percent chance of having a heart attack within 10 years
10. Do the same process steps 5 - 9 for female
11. Output the users chances of having a heart attack

**Variables**

* gender
* age
* cigarettes
* cholesterol
* hDLCholesterol
* bp
* medication
* pointTotal

| **Sex** | **Age** | **Do you smoke** | **Total Cholesterol** | **HDL Cholesterol** | **Systolic BP** | **Meds** | **Output: Risk**  **%** | **Type** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **m** | **20** | **no** | **290** | **60** | **118** | **y** | **1** | **Corner** |
| **m** | **26** | **yes** | **280** | **59** | **120** | **n** | **6** | **Edge** |
| **m** | **34** | **no** | **279** | **49** | **121** | **y** | **1** | **Edge** |
| **m** | **35** | **yes** | **270** | **39** | **123** | **n** | **20** | **Edge** |
| **m** | **38** | **no** | **269** | **120** | **126** | **y** | **2** | **Typical** |
| **m** | **39** | **yes** | **258** | **50** | **129** | **n** | **12** | **Edge** |
| **m** | **42** | **no** | **245** | **40** | **130** | **y** | **5** | **Edge** |
| **m** | **44** | **yes** | **240** | **26** | **131** | **n** | **16** | **Edge** |
| **m** | **46** | **no** | **239** | **92** | **136** | **y** | **5** | **Edge** |
| **m** | **49** | **no** | **238** | **53** | **138** | **n** | **5** | **Edge** |
| **m** | **50** | **yes** | **230** | **47** | **139** | **y** | **20** | **Edge** |
| **m** | **54** | **no** | **222** | **32** | **140** | **n** | **10** | **Edge** |
| **m** | **57** | **yes** | **219** | **62** | **141** | **y** | **20** |  |
| **m** | **59** | **no** | **200** | **58** | **143** | **n** | **12** | **Edge** |
| **m** | **60** | **yes** | **199** | **41** | **145** | **y** | **15** | **Edge** |
| **m** | **64** | **no** | **180** | **0** | **146** | **n** | **16** | **Edge** |
| **m** | **66** | **yes** | **178** | **83** | **148** | **y** | **16** |  |
| **m** | **71** | **no** | **160** | **54** | **159** | **n** | **12** | **Edge** |
| **m** | **74** | **yes** | **159** | **49** | **160** | **y** | **>30** | **Edge** |
| **m** | **79** | **no** | **158** | **30** | **161** | **n** | **>30** | **Corner** |
| **f** | **20** | **no** | **290** | **60** | **118** | **y** | **1** | **Edge** |
| **f** | **26** | **yes** | **280** | **58** | **120** | **n** | **10** | **Edge** |
| **f** | **34** | **no** | **279** | **45** | **121** | **y** | **2** | **Typical** |
| **f** | **35** | **yes** | **270** | **8** | **123** | **n** | **6** | **Typical** |
| **f** | **38** | **no** | **269** | **87** | **126** | **y** | **5** | **Typical** |
| **f** | **39** | **yes** | **258** | **60** | **129** | **n** | **13** | **Typical** |
| **f** | **42** | **no** | **245** | **39** | **130** | **y** | **10** | **Edge** |
| **f** | **44** | **yes** | **240** | **56** | **131** | **n** |  |  |
| **f** | **46** | **no** | **239** | **42** | **136** | **y** |  |  |
| **f** | **49** | **no** | **238** | **61** | **138** | **n** |  |  |
| **f** | **50** | **yes** | **230** | **51** | **139** | **y** |  |  |
| **f** | **54** | **no** | **222** | **49** | **140** | **n** |  |  |
| **f** | **57** | **yes** | **219** | **11** | **141** | **y** |  |  |
| **f** | **59** | **no** | **200** | **90** | **143** | **n** |  |  |
| **f** | **60** | **yes** | **199** | **22** | **145** | **y** |  |  |
| **f** | **64** | **no** | **180** | **60** | **146** | **n** |  |  |
| **f** | **66** | **yes** | **178** | **59** | **148** | **y** |  |  |
| **f** | **71** | **no** | **160** | **49** | **159** | **n** |  |  |
| **f** | **74** | **yes** | **159** | **39** | **160** | **y** |  |  |
| **f** | **79** | **no** | **158** | **38** | **161** | **n** |  |  |