Question 1:

Write a program that -

1. Prompts the user to enter a number greater than 5 but less than 10. Assume the user will enter an integer.
2. If the user enters something out of range, print an error and prompt again. Use an iteration construct.
3. Once the user has entered a valid number, perform some calculations to determine whether the number is odd or even. Print out the number and whether it is even or odd.

Question 2:

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| CODE | PROGRAM OUTPUT |
| int main(void)  {  int i = 0;  for(i = 1; i < 7; i++){  printf("i == %d\n", i);    if(i % 2 == 0){  printf("i is an even number.\n");  }else{  printf("i is an odd number.\n");  }  i++;  }  return 0;  } | 1  i is an odd number  2  i is an even number  3  i is an odd number  4  i is an even number  5  i is an odd number  6  i is an even number |

Question 3:

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| CODE | PROGRAM OUTPUT |
| int main(void){  int flag = 1;    do{  flag++;  printf("Flag!");  if(flag % 2 == 0){  flag--;  }  }while(flag);  return 0;  } | Flag! ………….. infinite |

|  |  |
| --- | --- |
| CODE | PROGRAM OUTPUT |
| int main(void){  int flag = 1;    do{  printf("Are we there yet?\n");  }while(!flag);  flag++;    flag %= 2;    if(!flag){  printf("Are we there yet... again?\n");  }else{  printf("We got lost.\n");  }  printf("We made it!\n");    return 0;  } | Are we there yet?  Are we there yet... again?  We made it! |