**C programs on switch case**

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| Write a simple switch program with 4 choices and a default.  #include <stdio.h>  int main()  {  int a;  printf("Enter your choice between 0 to 3\n");  scanf("%d",&a);  switch (a)  {  case 1:  printf("I am One\n");  break;  case 2:  printf("I am Two\n");  break;  case 3:  printf("I am Three\n");  break;  case 0:  printf("I am Zero\n");  break;  default:  printf("I am not between 1 to 3.\n I am default");  break;  }  return 0;  } | **Output 1:**  Enter your choice between 0 to 3  3  I am Three  **Output 2:**  Enter your choice between 0 to 3  89  I am not between 1 to 5.  I am default |
| Write a simple switch program using character variable in case.  #include <stdio.h>  int main()  {  char x;  printf("Enter the character (a or b or c)\n");  scanf("%c",&x);  switch (x)  {  case 'a':  printf("Choice 1\n");  break;  case 'b':  printf("Choice 2\n"); break;  case 'c':  printf("Choice 3\n");  break;    }  return 0;  } | Output:  Enter the character (a or b or c)  a  Choice 1  Output2: |
| #include <stdio.h>  int main()  {  int a, b,p;  char operation;  printf("Enter the two inputs:\n");  scanf("%d%d", &a, &b);  printf("Enter the operation you want to perform:\n 1.add\n 2.sub\n");  scanf("%d", &p);  switch (p)  {  case 1:  printf("Addition is %d\n",a + b);  break;  case 2:  printf("Subtraction is %d\n", a - b);  break;  default:  printf("%d is Not a valid operator\n", p);  }  return 0;  } | Enter the two inputs:  16  4  Enter the operation you want to perform:  1.add  2.sub  1  Addition is 20 |
| #include <stdio.h>  int main()  {  int a, b,p;  char operation;  printf("Enter the two inputs:\n");  scanf("%d%d", &a, &b);  printf("Enter the operation you want to perform:\n 1.add\n 2.sub\n 3.multi\n 4.div\n");  scanf("%d", &p);  switch (p)  {  case 1:  printf("Addition is %d\n",a + b);  break;  case 2:  printf("Subtraction is %d\n", a - b);  break;  case 3:  printf("Multiplication is %d\n", a \* b);  break;  case 4:  printf("Dividing gives %d\n", a / b);  break;  default:  printf("%d is Not a valid operator\n", p);  }  return 0;  } | Output:  Enter the two inputs:  12  4  Enter the operation you want to perform:  1.add  2.sub  3.multi  4.div  4  Dividing gives 3 |
| **Behaviour of Switch without break:**  #include <stdio.h>  int main()  {    switch(-2) {  case 2-4:  printf("I am -2\n");  default:  printf("I am negative two\n");  }  printf("I am out of switch!\n");  return 0;  } | I am -2  I am negative two  I am out of switch! |