

## PROGRAMMING LAB ASSIGNMENT - 8

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ENROLLMENT NUMBER-2020ITB028

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INDIAN INSTITUTE OF
ENGINEERING
SCIENCE AND
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1)Write a single function that will take two arguments a, b to find a^b. The argument a can be either integer or floating point number.

```
/*
Write a single function that will take two arguments a, b to find a^b.
The argument a can be either integer or floating point number.
CODE BY 2020ITB028 RUPAYAN THAKUR
*/
#include <stdio.h>
#include <math.h>
#include <stdlib.h>
double power(void* a, int b, int ch)
{
  if(ch==1)
    return pow((*(int*)a), b);
  if(ch==2)
    return pow((*(float*)a), b);
}
int main()
{
  int ch;
  printf("Enter 1 for INTEGER input\nEnter 2 for FLOATING POINT input\n");
  scanf("%d", &ch);
  void* inp= malloc(4);
  int b;
  switch(ch)
  {
```

## **OUTPUT:**

```
Enter 1 for INTEGER input
Enter 2 for FLOATING POINT input

1
ENTER AN INTEGER: 12
ENTER THE SECOND INPUT: 2
144.000000
PS C:\Users\Dell\Desktop\Programming lab>
```