TRIBHUVAN UNIVERSITY

INSTITUTE OF ENGINEERING

PULCHOWK CAMPUS

DEPARTMENT OF ELECTRONICS AND COMPUTER ENGINEERING

LAB REPORT ON OBJECT ORIENTED PROGRAMMING

Bachelor's Degree in Electronics, Communication and Information Engineering

FIRST YEAR SECOND PART(I-II)

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LAB 7

TASK 1:

```
#include <iostream>
using namespace std;

int main(){
int a=97;
int *iptr=&a;
char *chptr;
void *ptr=reinterpret_cast<void *> (iptr);
chptr=reinterpret_cast<char *> (ptr);
cout<<chptr;
}
```

TASK 2:

```
#include <iostream>
using namespace std;

class PARENT{
    public:
        void virtual test()=0;
};

class CHILD:public PARENT{
    public:
        void test(){}
};


int main(){
PARENT *par;
CHILD c,*ch;
par=&c;
ch=dynamic_cast <CHILD *>(par);
if(ch!=NULL)
    cout<<"conversion done.";

}
```

TASK 3:

```
#include<iostream>
#include <typeinfo>
using namespace std;
class PARENT{
    public:
        void virtual test(){}
};
class CHILD:public PARENT{
public:
    void test(){}
};
int main(){
   PARENT s,*p;
   CHILD ch;
   p= &ch;
   p=dynamic_cast<CHILD *>(p);
   cout<<typeid(*p).name();
   cout<< "\n"<<typeid(ch).name();
   cout<<"\n"<<typeid('d').name();
   cout<<"\n"<<typeid('d').hash_code();

}
```

TASK 4:

```
#include <iostream>
using namespace std;

class PARENT{
    public:
     virtual void show(){
        cout<<"PARENT ";
    }
};
class CHILD:public PARENT{
    public:
    void show(){
        cout<<"CHILD";
    }
};
int main(){
    PARENT *p=new CHILD();
    p->show();
}
```