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Roll No. 02. Class : D12A.

CODE:

```
import random
k=random.getrandbits(128)
m=random.getrandbits(128)
kb=bin(k)[6:]
mb=bin(m)[4:]
kbl=kb[0:64]
kbr=kb[64:]
mbl=mb[0:64]
mbr=mb[64:]
a1=int(kbl,2)
int(mbr,2)
a2=int(kbr,2)
int(mbl,2)
a3=a1^a2
a4=bin(a3)[2:].zfill(64)
a5=a4[0:32]
a6=a4[32:]
a7=int(a5,2)
int(a6,2)
print("128 Bit Key = ",kb)
print("128 Random Bits Generated = ",mb)
print("RES/SRES =",bin(a7)[2:].zfill(len(a5)))
```

OUTPUT: