## Server registration

## From 1:00 to 5:00 pm:

- Specify the backend as ibmq\_kolkata
- Specify the **instance** as rpi/internal/reservations
  - You can see this on your account
- You can also use rpi/general/hackathonf23 with normal queueing
- You will get a warning when you submit a job but that is normal
- rpi/general/hackathonf23 will be open for the next week

Below is an example test script I ran to validate the reservation usage.

```
import os
from qiskit_ibm_runtime import QiskitRuntimeService, Session, Options, Sampler
from qiskit import QuantumCircuit
#Reads auth token from env variable QISKIT_IBM_TOKEN
#note the backend="ibmq_kolkata" and instance="rpi/internal/reservations"
service = QiskitRuntimeService(channel="ibm_quantum", instance="rpi/internal/reservations", token="YOUR ACCESS TOKEN")
options = Options(optimization_level=1)
options.execution.shots = 1024 # Options can be set using auto-complete.
bell = QuantumCircuit(2)
bell.h(0)
bell.cx(0, 1)
bell.measure all()
with Session(service=service, backend="ibmq_kolkata") as session:
  sampler = Sampler(session=session, options=options)
  job = sampler.run(circuits=bell)
  print(f"Job ID is {job.job id()}")
  print(f"Job result is {job.result()}")
```